

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 (MARCH 2025)

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
14 April 2025	TCS01321/23/600/R0747v2	Anh	Am

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Version	Date	Remarks	
1	14 April 2025	First submission	
2	7 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 31 March 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	126	
Air Quality	24-hour TSP	4	20	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	8	40	
Construction Noise	$L_{eq(30min)}$ Daytime for Contract NE/2017/03	1	5	



BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES08 No exceedance of air quality was recorded in the Reporting Period. 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.

Environmentel	Monitoring	Monitoring Astion		Event & Action		
Environmental Aspect	Monitoring Parameters	Action Level		NOE Issued	Investigation	Corrective Actions
A in Opelity	1-hour TSP	0	0	0	NA	NA
Air Quality	24-hour TSP	0	0	0	NA	NA
Construction Noise	L _{eq(30min)} Daytime	0	0	0	NA	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 In view of the completion of major construction works, the EM&A service for Contract 3 and Contract 5 under service contract no. EDO 8/2022 was ceased in late January 2025 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.

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 5, 11, 20 and 25 March 2025 in which IEC joined the site inspection with SSEMC on 20 March 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 31 March 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
- 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*.

		License/Permit Status			
Item	Description	Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	
1	Form NA –	EPD ref. no. 470496	19-Aug-21	NA	Valid
	Notification				
	pursuant to Air				
	Pollution Control				
	(Construction Dust)				
	Regulation				
2	Waste Disposal	Account no. 7041336	6-Sep-21	NA	Valid
	Regulation –				
	Billing Account for				
	Disposal of				
	Construction Waste				
3	Chemical Waste	Registration no.		End of	
	Producer	WPN 5213-296-C1206-12	14-Sep-21	project	Valid
	Registration		_		
4	Water Pollution	WT00043000-2003	30-Jan-23	31-Jan-28	Valid
	Control Ordinance				
	– Discharge				
	License				

Table 2-1Status of Environmental Licenses and Permits of the Contract 4



SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

- 2.1.1 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.
- 2.1.2 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 Volume Air Sampler 	
Noise	 Leq(30min) in normal working days (Monday to Saturday) 07:00-19:00 except public holiday Supplementary information for data auditing, statistical results such as L₁₀ and L₉₀ 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 3-2	Impact Monitoring Stations – Air Quanty				
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



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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.				
(*)		monitoring location was recommended by RE and spended and the monitoring location is relocated by 2017.	• •			
(:)	00	<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>					
()	Review of noise m effective on 28 Fe	nonitoring locations was proposed by ET and NM 2b 2018.	IS-6 and NMS-7 we			
Ô	18 April 2018. 1	nonitoring locations was proposed by ET and NM Noise monitoring at NMS-8 was started on 3 May f 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

3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume 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 3-5Air Quality Monitoring EquipmentEquipmentModel24-hour TSPHigh Volume Air SamplerTISCH High Volume Air Sampler, HVS Model
TE-517024-hour TSPCalibration KitTISCH Model TE-5025A1- hour TSPPortable Dust MeterSibata LD-3B Laser Dust Monitor

Noise Monitoring

- 3.5.3 Sound level meter 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. 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 3-6Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Bruel & Kjaer 2238, Rion NL-31
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;
 - (b.) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
 - (c.) A built-in data logger compatible with Windows based program to facilitate data 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)		
Monitoring 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



TSP

Manitarina 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
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

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(*) 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.

Table 3-8	Action and Li	mit 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#		75 dB(A)		
NMS-5#	When one or more documented	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.

 (\sim) 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 *126* events of 1-hour TSP monitoring and *20* 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/m ³)	
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
4-Mar-25	27	1-Mar-25	9:00	60	59	56
10-Mar-25	5	7-Mar-25	8:50	56	58	63
15-Mar-25	16	13-Mar-25	8:15	54	57	52
21-Mar-25	52	19-Mar-25	8:30	61	65	60
27-Mar-25	31	25-Mar-25	8:50	53	57	67
		31-Mar-25	9:00	50	57	55
Average (Range)	26 (5 - 52)	Avera (Rang	•		58 (50 67)	•

 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	
1-Mar-25	9:25	60	64	70	
7-Mar-25	9:30	64	70	72	
13-Mar-25	8:45	63	72	55	
19-Mar-25	9:00	62	66	60	
25-Mar-25	9:30	64	72	68	
31-Mar-25	9:30	60	65	62	
Average	e (Range)		65 (55 - 72)		

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	
1-Mar-25	9:20	59	60	62	
7-Mar-25	9:25	60	62	60	
13-Mar-25	9:00	62	54	66	
19-Mar-25	9:15	64	67	66	
25-Mar-25	9:20	59	67	50	
31-Mar-25	13:30	58	52	56	
Average	e (Range)		60 (50 - 67)		



1-hour TSP (μg/m³)						
Date	Start Time	1 st reading	2 nd reading	3 rd reading		
1-Mar-25	9:15	64	74	71		
7-Mar-25	9:22	70	80	82		
13-Mar-25	9:10	61	65	72		
19-Mar-25	9:20	68	72	62		
25-Mar-25	9:00	64	69	71		
31-Mar-25	9:25	70	73	71		
Average	e (Range)	Average (Range) 70 (61 – 82)				

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

Table 4-5Summary of 24-hour and 1-hour TSP Monitoring Results (A	AMS-5)
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	24-hour	1-hour TSP (µg/m ³)				
Date	TSP (µg/m ³)	Date Start Time 1 st re		1 st reading	2 nd reading	3 rd reading
4-Mar-25	29	1-Mar-25	9:20	60	69	70
10-Mar-25	37	7-Mar-25	9:10	58	45	51
15-Mar-25	36	13-Mar-25	13:00	55	60	63
21-Mar-25	16	19-Mar-25	9:00	64	62	67
27-Mar-25	17	25-Mar-25	9:30	62	58	69
		31-Mar-25	13:00	65	71	68
Average (Barrage)	27	Average 62				
(Range)	(16 – 37)	(Range) (45 – 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/m ³)					
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
4-Mar-25	25	1-Mar-25	9:55	60	62	65	
10-Mar-25	3	7-Mar-25	13:04	40	40	49	
15-Mar-25	20	13-Mar-25	14:30	53	57	58	
21-Mar-25	33	19-Mar-25	13:00	64	54	58	
27-Mar-25	24	25-Mar-25	13:00	66	64	61	
		31-Mar-25	14:20	60	66	69	
Average (Range)	21 (3 - 33)	Average 58 (Range) (40 - 69)					

Table 4-7	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)
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	24-hour		1	1-hour TSP (μg/m ³)			
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
4-Mar-25	28	1-Mar-25	13:05	69	64	70	
10-Mar-25	16	7-Mar-25	13:00	62	61	67	
15-Mar-25	34	13-Mar-25	15:50	65	73	71	
21-Mar-25	39	19-Mar-25	15:45	68	71	67	
27-Mar-25	27	25-Mar-25	13:00	69	64	70	
		31-Mar-25	13:00	61	72	68	
Average	29	Averag		67			
(Range)	(16 – 39)	(Range) (61 – 73)					



- 4.2.2 As shown in *Tables 4-1 to 4-6*, all the 1-hour TSP and 24-hour TSP monitoring results in the Reporting Period were below the Action and Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.
- 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 **40** 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
7-Mar-25	70	63	62	64	63	68	68	64
13-Mar-25	68	63	62	67	64	65	65	65
19-Mar-25	<u>70</u>	58	64	63	63	68	63	64
25-Mar-25	67	64	59	67	63	67	63	65
31-Mar-25	68	64	64	65	66	67	61	67
Limit Level	7 0 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 examination period: 17 to 21 March 2025 NMS2 examination period: 6 to 11 March 2025

- 5.2.2 As shown in above table, the noise measurement result at NMS1 on 19 March 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 19 March 2025 is 63.1, which fall within the Limit Level.
- 5.2.3 For the additional noise monitoring under Contract 3, a total of 5 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 5-2	Summary of	Construction	Noise Monitoring	Results for	Contract 3

Construction Noise Level (Leq30min), dB(A)					
Date	CN3				
7-Mar-25	59				
13-Mar-25	64				
19-Mar-25	66				
25-Mar-25	60				
31-Mar-25	64				
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) (#)	1.216	-		
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)	1.216	ТКО 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)	0.099	-		



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 5, 11, 20 and 25 March 2025 in which IEC joined the site inspection with SSEMC on 20 March 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
5 March 2025	• No environmental issue was observed during site inspection.	• NA
11 March 2025	• Chemical container was found without drip tray which should be stored properly to prevent leakage.	Chemical container was removed and stored properly to prevent leakage.
20 March 2025	 Excavator was found missing NRMM label which should be shown on the excavator. Contractor was reminded to spray water on dusty area to prevent air pollution. 	• NRMM label was shown on the excavator.
25 March 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*.

Depending Devied	Contract	Environmental Complaint Statistics				
Reporting Period	no.	Frequency	Cumulative	Complaint Nature		
27 Sep 2021 – 28 February 2025	4	0	11	NA		
	1	0	70	NA		
	2	0	10	NA		
1 – 31 March 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 – 28 February 2025	4	0	0	NA
1 – 31 March 2025	1	0	0	NA
	2	0	0	NA
	3	0	0	NA
	4	0	0	NA
	5	0	0	NA

 Table 8-3
 Statistical Summary of Environmental Prosecution

Departing Davied	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
27 Sep 2021 – 28 February 2025	4	0	0	NA
1 – 31 March 2025	1	0	0	NA
	2	0	0	NA
	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*.

Table 9-1	Environmental Mugation 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

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 During dry season, 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 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 **96th** monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from **1 to 31 March 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 No 24-hour or 1-hour TSP monitoring and noise monitoring results that triggered the Action or Limit Levels were recorded. No NOEs or the associated corrective actions were therefore issued.
- 10.1.4 In the Reporting Period, no exceedance was recorded and no Notification of Exceedance was issued. Moreover, no noise complaints (which triggered Action Level) were received for the Project.
- 10.1.5 In the Reporting Period, no environmental complaint was received in Reporting Period.
- 10.1.6 No notification of summons or successful prosecution was received under the Project.
- 10.1.7 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

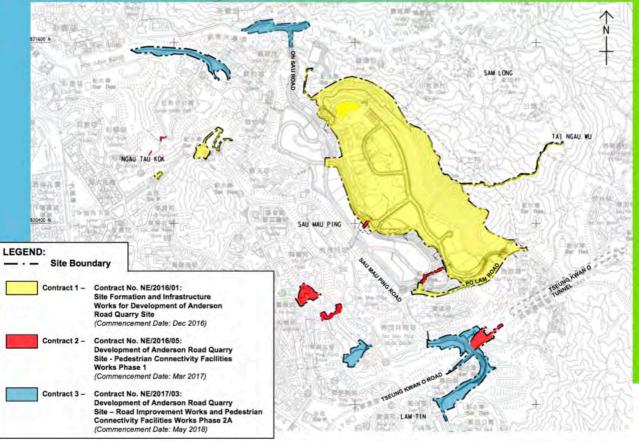
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- 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

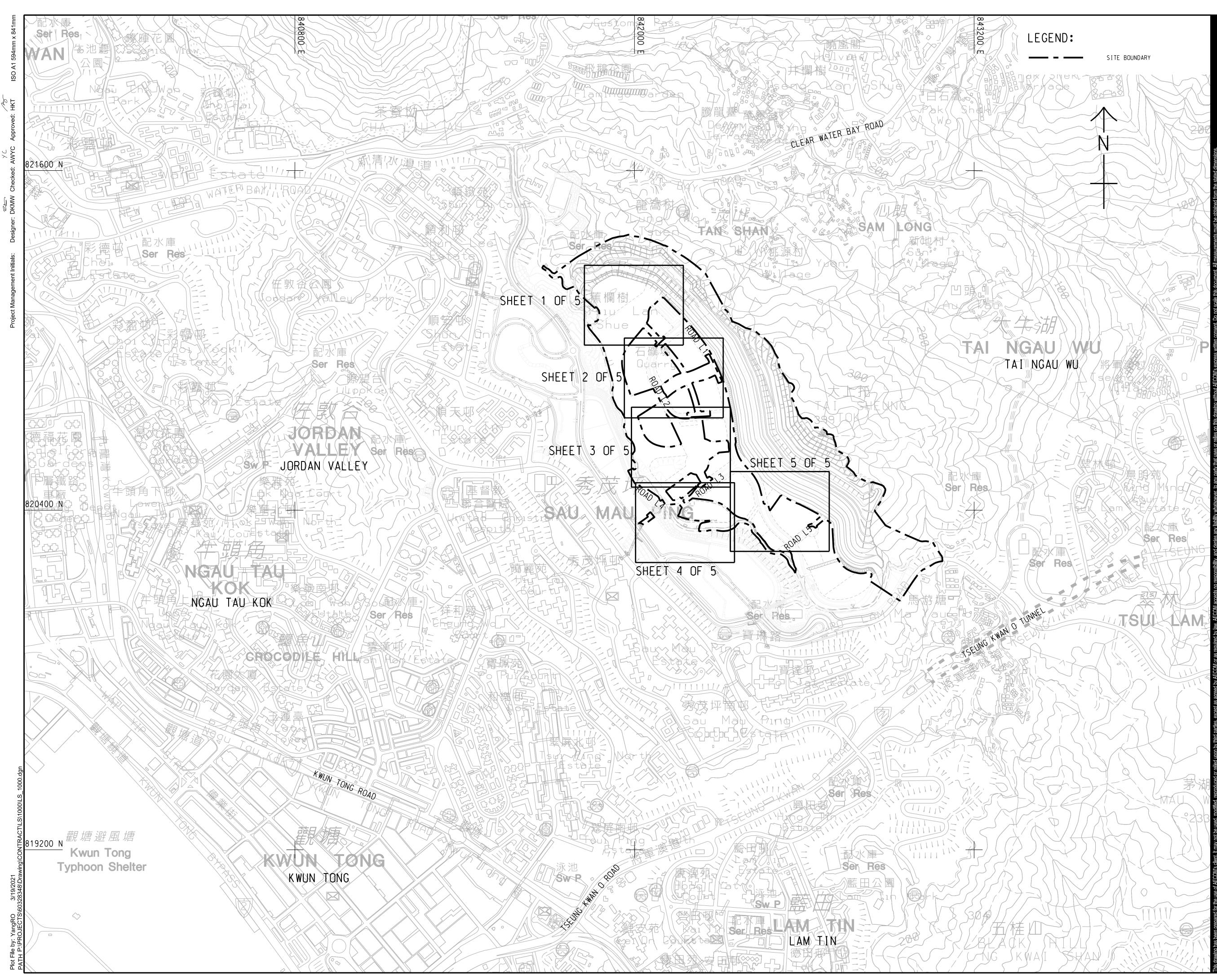
Layout plan of the Project

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

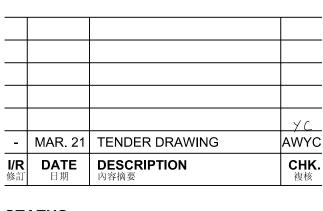
 Civil Engineering and Development Department

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리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

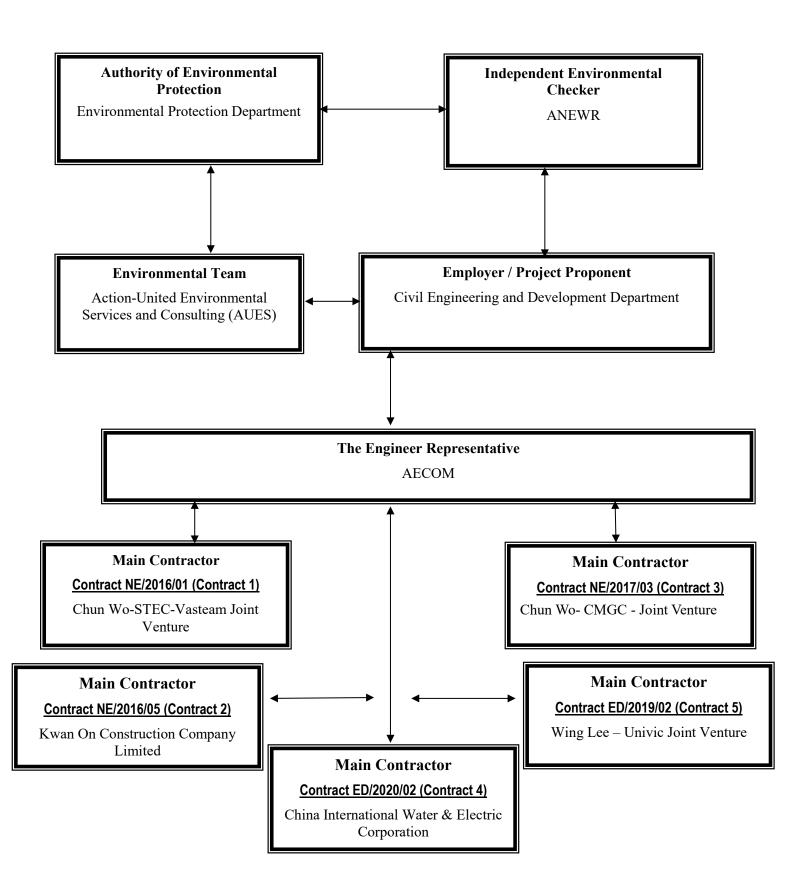


Appendix B

Project Organization Structure



Project Organization Structure





Contact Details of Key Personnel for Contract 4 - ED/2020/02

AUES

Legend:

CEDD (Employer) – Civil Engineering and Development Department

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)

		1		I		3 Mon	ths Rolling Pr	-			2025)			 	
כ ו	Fask Name	Duration	Start	Finish	Predecessors	23/2	2/3	9/3	March 202	5 6/3	23/3	30/3	6/4	ril 2025 13/4	20/
	<new summary="" task=""></new>	1567 days	Fri 30/7/21	Wed 12/11/25	5										
_	<new summary="" task=""></new>	1952 days	Fri 30/7/21	Wed 27/1/27										 	 _
	Contract Period	1952 days	Fri 30/7/21	Wed 27/1/27										 	 —
	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	Wed 27/1/27	Wed 27/1/27	27FF,7										
	Section of Works and Relevant Portions of Work	2221 days	Fri 30/7/21	Tue 7/12/27										 	
	Section of Works 1 - Portions 1a, 2a & 2b	1556 days	Mon 30/8/21	Tue 2/12/25								<u> </u>		 	
	Original Completion Date	0 days	Wed 13/12/23	Wed 13/12/23	4FS+867 days										
	Portion 1a	1314 days	Fri 29/4/22	Tue 2/12/25		-						<u> </u>		 	
	Access date	0 days	Fri 29/4/22	Fri 29/4/22	4FS+273 days	-									
-	Construction Duration	563 days	Fri 29/4/22	Sun 12/11/23	13SS	-									
-	Potential EOT due to Inclement weather and CEs	335 days	Mon 13/11/23	Sat 12/10/24	14	-									
-	Anticipated Completion Date	146 days	Thu 10/7/25	Tue 2/12/25		-									
-	Portion 2a	1548 days	Mon 30/8/21	Mon 24/11/25										 	
_	Access date	0 days	Mon 30/8/21	Mon 30/8/21	4FS+31 days	-									
-	Construction Duration	836 days	Mon 30/8/21	Wed 13/12/23	18SS	-									
_	Potential EOT due to Inclement weather and CEs	335 days	Thu 14/12/23	Tue 12/11/24	19	-									
_	Anticipated Completion Date		Wed 3/9/25	Mon 24/11/25	19	_									
_	Portion 2b	83 days				_								 	
		1439 days	Tue 14/12/21	Fri 21/11/25	150, 407, 1	-								 	 _
	Access date	0 days	Tue 14/12/21	Tue 14/12/21	4FS+137 days										
_	Construction	730 days	Tue 14/12/21	Wed 13/12/23	23SS										
	Potential EOT due to Inclement weather and CEs	292 days	Thu 14/12/23	Mon 30/9/24	24										
	Anticipated Completion Date	121 days	Thu 24/7/25	Fri 21/11/25											
	Section of Works 1A - Establishment Works for all Landscape Softworks	720 days	Thu 12/12/24	Wed 27/1/27										 	 _
_	in Section 1 of the Works Original Completion Date	0 days	Thu 12/12/24	Thu 12/12/24	11FS+365 days	-									
_	Commencement of Establishment Work	0 days 0 days	Wed 3/12/25	Wed 3/12/25	30SS	-									
	Establishment Work Duration	365 days	Wed 3/12/25	Wed 27/1/27	16,21,26	_									
_	Anticipated Completion Date		Wed 3/12/23 Wed 27/1/27	Wed 27/1/27 Wed 27/1/27	30FF	-									
	Section of Works 2 - Portion 8	0 days		Sat 4/10/25	JUFF	_									
_		1528 days	Fri 30/7/21			-								 	 <u> </u>
_	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										
	Construction Duration	730 days	Fri 30/7/21	Sat 29/7/23	34										
	Potential EOT due to Inclement weather and CEs up to Jan 2023	385 days	Sun 30/7/23	Sat 17/8/24	35									 	
	Anticipated Completion Date	0 days	Sat 4/10/25	Sat 4/10/25	403FF,36										
	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works	650 days	Mon 23/12/24	Thu 19/11/26										 	 _
	Original Completion Date	0 days	Mon 23/12/24	Mon 23/12/24		-									
-	Commencement of Establishment Work	0 days	Sun 5/10/25	Sun 5/10/25	41SS	-									
_	Establishment Work Duration	365 days	Sun 5/10/25	Thu 19/11/26	37	-									
_	Anticipated Completion Date	0 days	Thu 19/11/26	Thu 19/11/26	41FF	-									
_	Section of Works 3 - Portions 1b, 3, 4, 5	763 days	Fri 30/7/21	Thu 31/8/23		-									
_	Original Completion Date	0 days	Tue 30/5/23	Tue 30/5/23	4FS+669 days	-									
_	-	-			-1 0-000 Udys	-									
	Portion 1b	276 days	Tue 29/11/22	Thu 31/8/23	AEC 1497 dava	_									
	Access date	0 days	Tue 29/11/22	Tue 29/11/22	4FS+487 days										
	Construction Duration	183 days	Tue 29/11/22	Tue 30/5/23	46										
	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	47										
	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	572FF,48										
	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23											
	Access date	0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days										
	Construction Duration	609 days	Wed 29/9/21	Tue 30/5/23	51										
_]	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	52										
	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	584FF,53										
	Portion 4	763 days	Fri 30/7/21	Thu 31/8/23											
	Access date	0 days	Fri 30/7/21	Fri 30/7/21	4										
	Construction Duration	670 days	Fri 30/7/21	Tue 30/5/23	56										
	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	595FF,58										
-	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23	-	-						1			

			 			1 N	1arch 2025
20/4 27	/4	4/5	May 2 11/5	025	18/5		25/5

	nternational Water & Electric Corp.				Developn	nent of Anders 3 Mo	on Road Qu nths Rolling	arry Si Progra	ite - Infrast amme (Ma	ructure, Gr rch 2025 to	eening a May 20	nd Land 25)	lscape	Works					
ID	Task Name	Duration	Start	Finish	Predecessors	23/2	2/3		Mai 9/3	rch 2025 16/3		23/3		30/3		6/4	April 20	20/4	4
61	Access date	0 days	Sun 27/2/22	Sun 27/2/22	4														
62	Construction Duration	458 days	Sun 27/2/22	Tue 30/5/23	61														
63	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	62														
64		0 days	Thu 31/8/23	Thu 31/8/23	599FF,63														
65	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															
66	Original Completion Date	0 days	Tue 28/5/24	Tue 28/5/24	44FS+365 days														
67	Commencement of Establishment Work	0 days	Fri 1/9/23	Fri 1/9/23	68SS														
68	Establishment Work Duration	365 days	Fri 1/9/23	Fri 30/8/24	54,49,59,64														
69	Anticipated Completion Date	0 days	Fri 30/8/24	Fri 30/8/24	68FF														
70	Section of Works 4 - Portions 6, 12	1856 days	Fri 30/7/21	Wed 7/10/26															
71		0 days	Tue 13/6/23	Tue 13/6/23	4FS+683 days														
72		1179 days	Sat 29/1/22	Mon 21/4/25															
77		1856 days	Fri 30/7/21	Wed 7/10/26															
82	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	1172 days	Wed 12/6/24	Tue 7/12/27															
87	Section of Works 5A - Portions 9, 10	1459 days	Fri 30/7/21	Sun 27/7/25															
88	Original Completion Date	0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days														
89	Porion 9	1398 days	Wed 29/9/21	Sun 27/7/25															
90	Access date	0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days														
91	Construction Duration	638 days	Wed 29/9/21	Wed 28/6/23	90														
92	Potential EOT due to Inclement weather and CEs	460 days	Thu 29/6/23	Mon 30/9/24	91														
93	Anticipated Completion Date	0 days	Sun 27/7/25	Sun 27/7/25	92,757FF														
94	Portion 10	1384 days	Fri 30/7/21	Tue 13/5/25															
95		0 days	Fri 30/7/21	Fri 30/7/21	4														
96		699 days	Fri 30/7/21	Wed 28/6/23	95														
97		460 days	Thu 29/6/23	Mon 30/9/24	96														
98		0 days	Tue 13/5/25	Tue 13/5/25	802FF,97														
99	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works	/61 days	Wed 26/6/24	Mon 31/8/26															
100	Original Completion Date	0 days	Wed 26/6/24	Wed 26/6/24	88FS+365 days														
101	Commencement of Establishment Work	0 days	Mon 28/7/25	Mon 28/7/25	102SS														
102		365 days	Mon 28/7/25	Mon 31/8/26	93,98														
103		0 days	Mon 31/8/26	Mon 31/8/26	102FF														
104		954 days	Sun 27/2/22	Mon 7/10/24															
105		0 days	Tue 27/6/23	Tue 27/6/23	4FS+697 days														
106		0 days	Sun 27/2/22	Sun 27/2/22	4FS+211 days														
107 108	Construction Duration Potential EOT due to Inclement weather and CEs	487 days 460 days	Sun 27/2/22 Thu 29/6/23	Wed 28/6/23 Mon 30/9/24	106SS 107														
100		0 days	Mon 7/10/24	Mon 7/10/24	108,893FF														
110		494 days	Tue 29/11/22	Fri 5/4/24															
111		0 days	Tue 28/11/23	Tue 28/11/23	4FS+851 days														
112		0 days	Tue 29/11/22	Tue 29/11/22	4FS+487 days	_													
113		365 days	Tue 29/11/22	Tue 28/11/23	112	-													
114		90 days	Wed 29/11/23	Mon 26/2/24	113	-													
115		0 days	Fri 5/4/24	Fri 5/4/24	899FF,114														
116	Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works	365 days	Sat 6/4/24	Sat 5/4/25		_									-				
117		0 days	Wed 27/11/24	Wed 27/11/24	111FS+365 days	_													
118		0 days	Sat 6/4/24	Sat 6/4/24	11955	_													
119		365 days	Sat 6/4/24	Sat 5/4/25	115									<u></u>	5/4				
120		0 days	Sat 5/4/25	Sat 5/4/25	119FF										∢ 5/4				
121		669 days	Fri 30/7/21	Mon 29/5/23															
122	Access date for Portion 13a	0 days	Sat 29/1/22	Sat 29/1/22	4														
123	Construction Duration for Portion 13a	486 days	Sat 29/1/22	Mon 29/5/23	122														
124	Completion of Works in Portion 13a	0 days	Mon 29/5/23	Mon 29/5/23	123,930														
125	Access date for Portion 14	0 days	Fri 30/7/21	Fri 30/7/21	4														
126		669 days	Fri 30/7/21	Mon 29/5/23	125														
127	•	0 days	Mon 29/5/23	Mon 29/5/23	126,942,941														
128	Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)	365 days	Mon 29/5/23	Tue 28/5/24															
129	· · ·	0 days	Mon 29/5/23	Mon 29/5/23	127	-													
130	Establishment Work Duration for Section 7A	365 days	Tue 30/5/23	Tue 28/5/24	129	-													
100						1							1						

						1 March 2025
				 May 202	5	
L	27/	4	4/5	May 202 11/5	18/5	25/5
				4 13/5		

_nina in	ternational Water & Electric Corp.				Developme	ent of Anderso 3 Mont		ontract No. ED Site - Infrastr gramme (Marc	ucture, Green	ing and Lands y 2025)	scape V	Vorks									1 March 20
ID T	ask Name	Duration	Start	Finish	Predecessors	23/2	2/3		ch 2025 16/3	23/3		30/3	6/4	April 2025 13/4	20/4	2.	//4	4/5	May 202 11/5	5 18/5	25/5
132	Section of Works 7B - Portions 13b, 15	1281 days	Sat 26/2/22	Fri 29/8/25		23/2	213	9/3	10/3	23/3		50/3	0/4	13/4	20/4	2	/4	4/5	11/3	10/5	20/0
133	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	4FS+882 days																
134	Portion 13b	1281 days	Sat 26/2/22	Fri 29/8/25		-															
135	Access date	0 days	Sat 26/2/22	Sat 26/2/22	4FS+211 days	_															
136	Construction Duration	671 days	Sun 27/2/22	Fri 29/12/23																	
137	Potential EOT due to Inclement weather and CEs up to Jan 2023	300 days	Sat 30/12/23	Thu 24/10/24	136																
138	Anticipated Completion Date	0 days	Fri 29/8/25	Fri 29/8/25	948FF																
139	Portion 15	1280 days	Sun 27/2/22	Fri 29/8/25		_															
140	Access date	0 days	Sun 27/2/22	Sun 27/2/22	4	_															
141	Construction Duration	671 days	Sun 27/2/22	Fri 29/12/23	140	_															
142	Potential EOT due to Inclement weather and CEs	300 days	Sat 30/12/23	Thu 24/10/24	141	_															
143	Anticipated Completion Date	0 days	Fri 29/8/25	Fri 29/8/25	948FF	_															
144	Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	610 days	Fri 27/12/24	Thu 8/10/26																	
145	Original Completion Date	0 days	Fri 27/12/24	Fri 27/12/24	133FS+365 days	_															
146	Commencement of Establishment Work	0 days	Sat 30/8/25	Sat 30/8/25	147SS																
147	Establishment Work Duration	365 days	Sat 30/8/25	Thu 8/10/26	138,143																
148	Anticipated Completion Date	0 days	Thu 8/10/26	Thu 8/10/26	147FF																
149	Section of Works 8 - Portion 16	564 days	Thu 16/6/22	Sun 31/12/23																	
150		0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days																
151	Access date	0 days	Thu 16/6/22	Thu 16/6/22	4FS+321 days																
152	Construction Duration	378 days	Thu 16/6/22	Wed 28/6/23	151	_															
153	Potential EOT due to Inclement weather and CEs	186 days	Thu 29/6/23	Sun 31/12/23	152	_															
154	Anticipated Completion Date	0 days	Sun 31/12/23	Sun 31/12/23	153,1126FF	_															
155	Section of Works 8A - Establishment Works for all Landscape Softworks in Section 8 of the Works	365 days	Mon 1/1/24	Mon 30/12/24																	
156	Original Completion Date	0 days	Thu 27/6/24	Thu 27/6/24	150FS+365 days																
157	Commencement of Establishment Work	0 days	Mon 1/1/24	Mon 1/1/24	158SS																
158	Establishment Work Duration	365 days	Mon 1/1/24	Mon 30/12/24	154																
159	Anticipated Completion Date	0 days	Mon 30/12/24	Mon 30/12/24	158FF																
160	Section of Works 9 - Portion 17	1129 days	Sun 27/2/22	Mon 31/3/25																	
161	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	4FS+882 days																
162	Access date	0 days	Sun 27/2/22	Sun 27/2/22	4FS+212 days																
163	Construction Duration	671 days	Sun 27/2/22	Fri 29/12/23	162																
164	Potential EOT due to Inclement weather and CEs	306 days	Sat 30/12/23	Wed 30/10/24	163	_															
165	Anticipated Completion Date	0 days	Mon 31/3/25	Mon 31/3/25	164,1142FF	_					- M	31/3									
166	Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 of the Works	458 days	Sat 28/12/24	Wed 15/4/26																	
167	Original Completion Date	0 days	Sat 28/12/24	Sat 28/12/24	161FS+365 days	-															
168	Commencement of Establishment Work	0 days	Mon 31/3/25	Mon 31/3/25	165SS						•	31/3									
169	Establishment Work Duration	365 days	Tue 1/4/25	Wed 15/4/26	165						1/4 🎽										
170	Anticipated Completion Date	0 days	Mon 31/3/25	Mon 31/3/25	165FF						*	31/3									
171	Section of Works 10 - All Tree Protection and Preservation Works	1202 days	Fri 30/7/21	Tue 12/11/24																	
172	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	133FF																
173		0 days	Fri 30/7/21	Fri 30/7/21	4																
174	All Tree Protection and Preservation Work	883 days	Fri 30/7/21	Fri 29/12/23	173																
175	Potential EOT due to Inclement weather and CE	319 days	Sat 30/12/23	Tue 12/11/24	174																
176	Completion of All Tree Protection and Preservation Work Preliminaries	0 days 1567 days	Tue 12/11/24 Fri 30/7/21	Tue 12/11/24 Wed 12/11/25	175,1219FF	_															
177 F	Establishment of Commercial/Organization	1567 days 370 days	Fri 30/7/21	Wed 12/11/25 Wed 3/8/22		-															
178	-	7 days	Fri 30/7/21	Thu 5/8/21	4																
180	Confirmation and arrangement of the method of payment	7 days 7 days	Fri 30/7/21	Thu 5/8/21	4																
181	Issue forms to CIC& PCFB	14 days	Fri 30/7/21	Thu 12/8/21	4	-															
182	Submission of MPF form to MPFSA	7 days	Fri 30/7/21	Thu 5/8/21	4	_															
183	Notification to Labour Department/Marine Department of the commencemen date and other details of the contract	-	Fri 30/7/21	Thu 5/8/21	4																
184	Submission of Summary Details of Contract to the Departmental Safety and	21 days	Fri 30/7/21	Thu 19/8/21	4																
185	Environmental Nominate a Labour Officer	7 days	Fri 30/7/21	Thu 5/8/21	4	_															
185		7 days 7 days	Fri 30/7/21	Thu 5/8/21	4	_															
180	Professional video production company and a competent video director	7 days 7 days	Fri 30/7/21	Thu 5/8/21	4																
188	Surveyor, Key People	7 days 7 days	Fri 30/7/21	Thu 5/8/21	4																
189		7 days 7 days	Fri 30/7/21	Thu 5/8/21	4																
		,-																			
ased or	Task Critical Task Critical Task	M	ilestone 🔷	Summ	ary			Page 3 /20													

	ternational Water & Electric Corp.				Developm	ent of Anders 3 Mor	on Road Quarry nths Rolling Pro	/ Site - Infrast gramme (Ma	ructure, Greer rch 2025 to Ma	ning and Landsc ay 2025)	ape Works							1
ID T	ask Name	Duration	Start	Finish	Predecessors	23/2	2/3	Mar 9/3	rch 2025 16/3	23/3	30/3	6/4	April 2025 13/4	20/4	27/4	4/5	May 2025 11/5 18/5	
190	Particulars of Independent service provider for Digital Works Supervision System	7 days	Fri 30/7/21	Thu 5/8/21	4	2012	210	5/0	10/0	20/0		0/4	10/4	2014				
91		14 days	Fri 30/7/21	Thu 12/8/21	4													
92	-	14 days	Fri 30/7/21	Thu 12/8/21	4													
93	Competent member of the sites supervisory staff to oversee and supervise tree works related to arboricultural operations and preservation of trees within the Site		Fri 30/7/21	Thu 19/8/21	4													
94		21 days	Fri 30/7/21	Thu 19/8/21	4													
95		21 days	Fri 30/7/21	Thu 19/8/21	4													
	knowledge of the site supervisory for tree preservation)					_												
196	-	21 days	Fri 30/7/21	Thu 19/8/21	4	_												
97		30 days	Fri 30/7/21	Sat 28/8/21	4	_												
98	-	30 days	Fri 30/7/21	Sat 28/8/21	4	_												
99		30 days	Fri 30/7/21	Sat 28/8/21	4	_												
200		30 days	Fri 30/7/21	Sat 28/8/21	4	_												
201		30 days	Fri 30/7/21	Sat 28/8/21	4	_												
202		30 days 60 days	Fri 30/7/21 Fri 30/7/21	Sat 28/8/21 Mon 27/9/21	4	_												
203		60 days 60 days	Fri 30/7/21	Mon 27/9/21 Mon 27/9/21	4	_												
204		60 days 60 days	Fri 30/7/21	Mon 27/9/21 Mon 27/9/21	4	_												
200	uniform; Provide uniforms within 5 days after the design is accepted by PM	u uys	111 JUITIZ I	111011 2113/21	-													
206	· · · · · · · · · · · · · · · · · · ·	90 days	Fri 30/7/21	Wed 27/10/21	4													
207	-	90 days	Fri 30/7/21	Wed 27/10/21	4													
208		90 days	Fri 30/7/21	Wed 27/10/21	4													
209		90 days	Fri 30/7/21	Wed 27/10/21	4													
210		90 days	Fri 30/7/21	Wed 27/10/21	4													
211	Video script for Project Video Film	180 days	Fri 30/7/21	Tue 25/1/22	4													
212	Employment of Construction Industry Council's Graduates (min. 4 graduates)	180 days	Fri 30/7/21	Tue 25/1/22	4													
213	Nomination of Treatment process specialist, Design Engineer, and Independent Checking Engineer (ICE)	34 days	Fri 1/7/22	Wed 3/8/22														
214		60 days	Fri 30/7/21	Mon 27/9/21		-												
15	•	30 days	Fri 30/7/21	Sat 28/8/21	4													
216	Preparation and submission of Waste Management Plan (WMP)	30 days	Fri 30/7/21	Sat 28/8/21	4													
217 218	Preparation and submission of Draft Construction Health and Safety Plan (3 copies) Preparation and submission of Quality Policy statement and quality plan	7 days 7 days	Fri 30/7/21 Fri 30/7/21	Thu 5/8/21 Thu 5/8/21	4													
210		4 days	Fri 30/7/21	Mon 2/8/21	4	_												
220	(EMP) 3 copies Tender requirements for suppliers of Plant and Materials, Equipment and		Fri 30/7/21	Thu 12/8/21	4													
221	compartments/ drinking water facilities/ toilet/ hand-wash facilities/ showering/	14 days	Fri 30/7/21	Thu 12/8/21	4													
222	rubbishbin/ working shelter on Site Preparation Proposal for security system	14 days	Fri 30/7/21	Thu 12/8/21	4	_												
222		21 days	Fri 30/7/21	Thu 12/0/21	4	-												
224		21 days	Fri 30/7/21	Thu 19/8/21	4	-												
225		30 days	Fri 30/7/21	Sat 28/8/21	4													
226	Weather protection scheme	30 days	Fri 30/7/21	Sat 28/8/21	4													
27		30 days	Fri 30/7/21	Sat 28/8/21	4													
228 229	(EMP) 3 copies	30 days 30 days	Fri 30/7/21 Fri 30/7/21	Sat 28/8/21 Sat 28/8/21	4													
230	construction and Project Video Films Preparation and submission of Site Traffic Safety Management Plan	60 days	Fri 30/7/21	Mon 27/9/21	4													
231		60 days	Fri 30/7/21	Mon 27/9/21	4													
32	Preparation and submission of BIM Execution Plan accordance with the PSA 1.14D Public Relation (PR) Company, PR plan	60 days 60 days	Fri 30/7/21 Fri 30/7/21	Mon 27/9/21 Mon 27/9/21	4													
33 34		7 days	Fri 30/7/21	Thu 5/8/21	4													
34 35		7 days 411 days	Thu 16/3/23	Mon 29/4/24	7													
35 36		411 days 45 days	Thu 16/3/23	Sat 29/4/23														
37		115 days	Sun 30/4/23	Tue 22/8/23	236	_												
238		15 days	Wed 23/8/23	Wed 6/9/23	230	_												
239	Procurement & material submission of movement joinst for elevated walkway		Thu 16/3/23	Sat 29/4/23	-													
240		115 days	Sun 30/4/23	Tue 22/8/23	239													
241	Deliveries and site inspection of movement joinst for elevated walkway etc.		Wed 23/8/23	Wed 6/9/23	240													
- I T															:			

					Developm	nent of Anderso 3 Mon	iths Rolling Pro	gramme (Ma	rch 2025 to Ma	ay 2025)	ape works							
ID 1	Task Name	Duration	Start	Finish	Predecessors	23/2	2/3	Ma 9/3	rch 2025 16/3	23/3	30/3	6/4	April 2025 13/4	20/4	27/4	4/5	May 2025 11/5	18/5 2
42	Procurement of Raise Planter Type A&B	60 days	Mon 1/1/24	Thu 29/2/24														
13		60 days	Fri 1/3/24	Mon 29/4/24	242													
4	Procurement of Balustrade Wall BW1-2	60 days	Mon 1/1/24	Thu 29/2/24														
15	Manufacturing, FAT & delivery of Balustrade Wall BW1-2	60 days	Fri 1/3/24	Mon 29/4/24	244													
6	Procurement of Children Play Areas & water play area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24														
17	Design, Manufacturing, FAT & delivery of Children Play Areas & water play area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	246													
48	Procurement of Adult fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24														
9	Design Manufacturing, FAT & delivery of Adult fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	248													
50	Procurement of Elderly fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24														
51	Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	250													
52	Programme	1537 days	Fri 30/7/21	Mon 13/10/25		_												
53	Preparation & Submission of First Works Program	6 days	Fri 30/7/21	Wed 4/8/21	4													
54	Preparation & Submission of Three Months Rolling Program	14 days	Fri 30/7/21	Thu 12/8/21	4													
55	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	-												
8	Implementation of Programme Management and Monthly Reporting	1443 days	Mon 1/11/21	Mon 13/10/25	257	1%												
59	Permit and Licences	60 days	Fri 30/7/21	Mon 27/9/21														
60	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													
61 62	Risk Assessment for slope works Welfare facilities for workers in accordance with requirements in PS Clause	7 days 7 days	Fri 30/7/21 Fri 30/7/21	Thu 5/8/21 Thu 5/8/21	4													
	1.69B																	
53	UU detection equipment brand/model	7 days	Fri 30/7/21	Thu 5/8/21	4													
64 65		7 days 6 days	Fri 30/7/21 Fri 30/7/21	Thu 5/8/21 Wed 4/8/21	4	_												
66	Site Record Information System, Digital Works Supervision System and other software		Fri 30/7/21	Wed 4/8/21	4													
67	Name of the designated bank and all related arrangement details for payment of wages to all the Site Workers Site Cleanliness and Tidiness	6 days 7 days	Fri 30/7/21	Thu 5/8/21	4	_												
68	3 sets of coloured record photos in SR size (recording existing building/ stree		Fri 30/7/21	Thu 5/8/21	4													
	furniture)																	
69	Contract Cars	7 days	Fri 30/7/21	Thu 5/8/21	4													
70	Design of uniform for site workers	7 days	Fri 30/7/21	Thu 5/8/21	4													
71	Survey Equipment for Initial survey	7 days	Fri 30/7/21	Thu 5/8/21	4													
72	Inclinometer access tubes - suppliers, material specification and samples of the tubes and couplings		Fri 30/7/21	Thu 12/8/21	4													
73	Payment of Wages System for Site Workers	14 days	Fri 30/7/21	Thu 12/8/21	4													
74	Tree survey record	14 days	Fri 30/7/21	Thu 12/8/21	4													
75	Supply of Survey Equipment for PM use	30 days	Fri 30/7/21	Sat 28/8/21	4													
76		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		_												
0	Architectural & Structural	183 days	Fri 1/7/22	Fri 30/12/22														
1	Prepare & Submission	31 days	Fri 1/7/22	Sun 31/7/22	4													
32	Internal Review & Submission	15 days	Mon 1/8/22	Mon 15/8/22	281													
33	PM Review & AIP	16 days	Tue 16/8/22	Wed 31/8/22	282													
34	Re-submission	30 days	Thu 1/9/22	Fri 30/9/22	283													
35	Design Checker Review & Endorsement	7 days	Sat 1/10/22	Fri 7/10/22	284													
36	DDA Submission (circulation to Government Authorities)	8 days	Sat 8/10/22	Sat 15/10/22	285													
37	Time risk allowance for DDA processing	7 days	Sun 16/10/22	Sat 22/10/22	286													
88	Vetting Process and Approval by Government Authorities and PM	69 days	Sun 23/10/22	Fri 30/12/22	287													
39	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	004													
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	_	5/3											
4	Contractor's Design [Enhancement on Architectural Design & Associated Works] Engagement of Design Architectural Eirm (CE 005)		Fri 14/1/22	Thu 14/11/24														
95 96	Engagement of Design Architectural Firm (CE 005) Enhancement on Architectual Design & Associated Works at Portions 1a, 2a	0 days 0 days	Fri 14/1/22 Tue 4/4/23	Fri 14/1/22 Tue 4/4/23	295													
97	and 2b (Quarry Lake) (CE 070) AIP and approvals	275 days	Fri 1/7/22	Sat 1/4/23		_												

					Developme	3 Mon	ths Rolling P	rogramme (Ma	rch 2025 to Ma	y 2025)									
D Ta	sk Name	Duration	Start	Finish	Predecessors	23/2	2/3	Ma 9/3	rch 2025 16/3	23/3	30/3	6/4	April 2025 13/4	20/4	27/4	4/5		May 2025 1/5 18	8/5 25
98	Schematic Landscape Master Plan (LMP), Design AIP, GBP approval	153 days	Fri 1/7/22	Wed 30/11/22	295	LOIL	2/0	0,0	10/0	20/0		0/1	10/1	20/1			<u>/</u>		<i>"</i> 0
99	Production of AIP Drawings	92 days	Sat 31/12/22	Sat 1/4/23	298														
00	DSD's AIP approval	0 days	Sat 1/4/23	Sat 1/4/23	299														
01	Detailed Design Submission Schedule	473 days	Mon 31/7/23	Thu 14/11/24															
02	Statutory submission	92 days	Wed 30/8/23	Thu 30/11/23	300														
303	FSD submission for GBP	0 days	Thu 30/11/23	Thu 30/11/23															
304	WW0542 documment	0 days	Wed 30/8/23	Wed 30/8/23															
305	Civil	46 days	Wed 30/8/23	Sun 15/10/23	300														
306	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		1													
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															
328	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	045														
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														
348	Submission and presentation	0 days	Tue 1/8/23	Tue 1/8/23	240														
349	VCAB meeting	0 days	Thu 7/9/23	Thu 7/9/23	348														
50	Approval	30 days	Thu 7/9/23	Fri 6/10/23	349														
51	Sub-letting (Cost Trimming Scheme)	211 days	Wed 1/3/23	Wed 27/9/23	20050.00.1														
52	Drawings for cost estimation	30 days	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														
354	Tender addendum	8 days	Mon 17/4/23	Mon 24/4/23	353														
355	Sub-letting Period	25 days	Tue 4/4/23	Fri 28/4/23	354FS-21 days														
356	Tender Assessment & approval	12 days	Sat 29/4/23	Wed 10/5/23	355														
357	PMI preparation	58 days	Thu 11/5/23	Fri 7/7/23	356														
58	Recost trimming by DSD	21 days	Sat 8/7/23	Fri 28/7/23	357														
0																			

China I	nternational Water & Electric Corp.				Developme	ent of Anders 3 Mor	CEDD on Road Quar oths Rolling Pi	ry Site - Infra	ED/2020/02 astructure, G March 2025 t	reening a	nd Landsca 25)	ape Works									1 March 202
ID	Task Name	Duration	Start	Finish	Predecessors	23/2	2/3	N 9/3	/arch 2025 16/3	a	23/3	30/3	6/4	April 2025 13/4	20/4	27	Λ		May 2025 1/5	18/5	25/5
359	Resubmission of detailed design	30 days	Tue 8/8/23	Wed 6/9/23	358	23/2	2/3	3/3	10/		20/0	30/3	0/4	13/4	20/4	21	4	4/5	1/5	10/5	20/0
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																
362	Method Statements & Temporary Works	792 days	Fri 30/7/21	Fri 29/9/23																	
363	Prepartion & submission of generic method statement for site formation work	60 days	Tue 1/11/22	Fri 30/12/22																	
364	Preparation & submission of generic method statement for earth slope works		Tue 1/11/22	Fri 30/12/22																	
365	Preparation & submission of generic method statement for retaining wall construction	60 days	Wed 1/6/22	Sat 30/7/22																	
366		60 days	Fri 30/7/21	Mon 27/9/21																	
367	Preparation & Submission of generic method statement for drainage works		Fri 30/7/21	Mon 27/9/21																	
368	Preparation and submission of generic method statement of road works	60 days	Tue 1/11/22	Fri 30/12/22																	
369	Preparation & submission of generic method statement of elevated walkway	60 days	Thu 1/6/23	Sun 30/7/23																	
370	construciton Temporary Work for cut/fill slope works	60 days	Tue 1/11/22	Fri 30/12/22																	
371		60 days	Wed 1/6/22	Sat 30/7/22																	
372		60 days	Tue 1/8/23	Fri 29/9/23																	
373		60 days	Fri 30/7/21	Mon 27/9/21																	
374		1567 days	Fri 30/7/21	Wed 12/11/25																	
375		30 days	Fri 30/7/21	Sat 28/8/21																	
376	Submission of BIM Execution Plan in accordance with the PS Appendix 1.14		Fri 30/7/21	Mon 27/9/21		-															
377		90 days	Fri 30/7/21	Wed 27/10/21																	
378		90 days	Fri 30/7/21	Wed 27/10/21																	
379	Nomination of staff or subcontractor to attend BIM skill training courses under	r 120 days	Fri 30/7/21	Fri 26/11/21																	
380	the pre approved list of the CITF managed by the CIC Collaboration and Model Sharing	60 days	Thu 28/10/21	Sun 26/12/21	376FS+30 days																
380	Monthly Coordination meeting& Submission of monthly BIM progress reports		Mon 27/12/21	Wed 12/11/25	380																
	& Submission of 4D Simulation	in adjo																			
382		30 days	Sun 14/9/25	Mon 13/10/25	381FS-60 days																
383		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																
384		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days																
385		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days	-															
386		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days	-															
	Work Area	1572 days	Fri 30/7/21	Mon 17/11/25		-															
388	-	30 days	Fri 30/7/21	Sat 28/8/21	200	-															
389		30 days	Sun 29/8/21 Tue 28/9/21	Mon 27/9/21 Sun 26/12/21	388 389																
390 391		90 days 0 days	Mon 24/1/22	Mon 24/1/22	390																
391	CRE Site office Mobilization & Maintenance	1394 days	Mon 24/1/22	Mon 17/11/25	390.391																
393		0 days	Fri 30/7/21	Fri 30/7/21	000,001																
394	Maintenance Duration for Works Area	1566 days	Sat 31/7/21	Wed 12/11/25	393FS+1 day																
395		0 days	Wed 12/11/25	Wed 12/11/25		-															
396		90 days	Tue 28/9/21	Sun 26/12/21	4	-															
397	Contractor Site office Maintenance	1389 days	Mon 24/1/22	Wed 12/11/25	396																
	Construction Works	1857 days?	Thu 29/7/21	Wed 7/10/26																	
399	Section of Works 1A - Establishment Works for all Landscape Softworks	365 days	Thu 29/7/21	Thu 28/7/22																	
400	in Section 1 of the Works Commencement of Establishment Work for Section 1	0 days	Fri 30/7/21	Fri 30/7/21		-															
400		365 days	Thu 29/7/21	Thu 28/7/22	400SS-1 day	-															
401		0 days	Thu 28/7/22	Thu 28/7/22	401																
403	Section of Works 2 - Portion 8	1528 days?	Fri 30/7/21	Sat 4/10/25																	
404	Portion 8	1528 days?	Fri 30/7/21	Sat 4/10/25																	
405		7 days	Fri 30/7/21	Thu 5/8/21	34SS																
406		14 days	Fri 6/8/21	Thu 19/8/21	405																
407	Preparation & submission of MS, Temp works, associated plans & docs	-	Fri 20/8/21	Sun 10/10/21	406																
408	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21	407																
409	Drainage pipe and manhole	350 days	Tue 2/11/21	Mon 17/10/22																	
410	Excavation	350 days	Tue 2/11/21	Mon 17/10/22	408																
411	Pipe laying and manhole construction including backfilling	295 days	Tue 7/12/21	Tue 27/9/22	410SS+35 days	1															
412	Excavation for planter	20 days	Wed 28/9/22	Mon 17/10/22	411																
413		219 days	Tue 18/10/22	Wed 24/5/23	412																
414		14 days	Tue 18/10/22	Mon 31/10/22	412																
415		421 days	Mon 14/11/22	Mon 8/1/24																	
416		293 days?	Sun 30/7/23	Fri 17/5/24																	
417	Lighting design	610 days	Mon 14/11/22	Tue 16/7/24	415SS,416FF+60 days,614	1															
	Task Critical Task	Ν	Vilestone 🔷	Summ	ary																
ased c	on revised programme dated 28 Feb 2025							Page 7 /2	0												

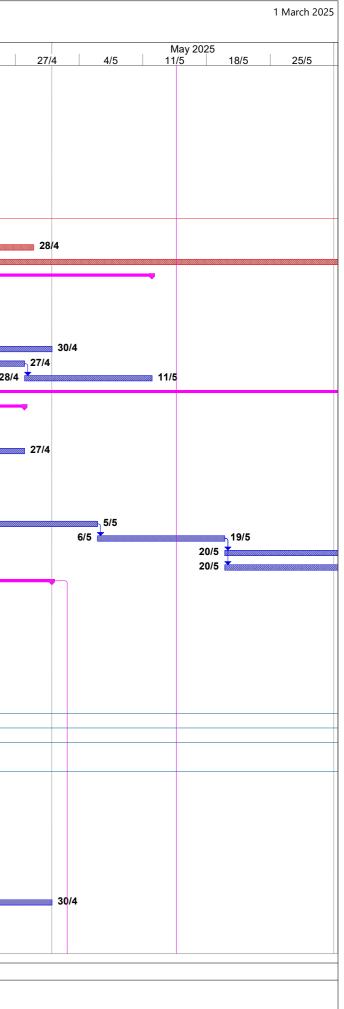
	ternational Water & Electric Corp.				Developme		son Road Qua onths Rolling P						cape	Works				
D T	ask Name	Duration	Start	Finish	Predecessors	23/2	2/3		March 2 9/3			23/3		30/3	6/4	April 20		20/4
18	Approval of lighting design by LCSD	30 days	Wed 17/7/24	Thu 15/8/24	417				0,0			20/0						
9	Design and fabrication for lamp post holding down bolt	150 days	Thu 1/2/24	Sat 29/6/24														
0	Cable wiring & accessories	60 days	Sun 22/6/25	Wed 20/8/25	448,475,439,523,527,524	, ,												
21	Testing and commissioning of lighting	30 days	Fri 5/9/25	Sat 4/10/25	420,449,450,459													
2	Irrigation system	72 days	Mon 18/12/23	Tue 27/2/24		1												
3	Approval of WWO542	40 days	Mon 18/12/23	Fri 26/1/24														
24	Approval of Form WWO 046	32 days	Sat 27/1/24	Tue 27/2/24	423													
25	Wing A	1408 days	Fri 30/7/21	Fri 6/6/25										+				
26	Awaiting hanover from R2-3	348 days	Mon 2/10/23	Fri 13/9/24														
27	U channel and catchpit	151 days	Fri 1/11/24	Mon 31/3/25										31/3				
28	Play area formation	75 days	Wed 6/11/24	Sun 19/1/25														
29	Play area slab	14 days	Sat 1/3/25	Fri 14/3/25	428	1/3	*		14/3	5								
30	Installation, Inspection/certification of play area equipment	30 days	Sun 30/3/25	Mon 28/4/25	489							30/3						
31	Planters RP1 -6	60 days	Mon 17/2/25	Thu 17/4/25													17 _	/4
32	Soil replacement	14 days	Fri 18/4/25	Thu 1/5/25	431											18/4	1	
33	Irrigation system	14 days	Fri 2/5/25	Thu 15/5/25	432									1				
4	Seat	14 days	Mon 3/3/25	Sun 16/3/25			3/3			16/3				1				
5	Edge and pavement	28 days	Fri 2/5/25	Thu 29/5/25	432									1				
36	Fininshing to planter wall, seat wall and panter kerb	14 days	Fri 30/7/21	Thu 12/8/21										1				
37	Soft landscaping works	30 days	Fri 18/4/25	Sat 17/5/25	431											18/4	1	
38	Lighting System	67 days	Tue 1/4/25	Fri 6/6/25									- +					
39	Cable Duct, pillar box, cable drawpit & lamp post footing	45 days	Tue 1/4/25	Thu 15/5/25	427								1/4	5				
0	Installation of Lamp post	22 days	Fri 16/5/25	Fri 6/6/25	439													
1	Wing C	775 days	Thu 3/8/23	Mon 15/9/25									+++	+				
12	Catchpit (Stage 1)	211 days	Thu 3/8/23	Thu 29/2/24														
13	Catchpit (Stage 2)	21 days	Mon 2/6/25	Sun 22/6/25									+++					
14	(awaiting for R2-6)	83 days	Mon 10/3/25	Sat 31/5/25			1	0/3 🔤										
15	U Channel (Stage 1)	21 days	Sun 1/6/25	Sat 21/6/25	444													
16	U Channel (Stage 2)	60 days	Sun 22/6/25	Wed 20/8/25	445													
47	Lighting System	96 days	Sun 1/6/25	Thu 4/9/25														
18	Cable Duct, pillar box, cable drawpit & lamp post footing (Stage 1)	-	Sun 1/6/25	Sat 21/6/25	444													
19	Cable Duct, pillar box, cable drawpit & lamp post footing (Stage 2)	-	Sun 22/6/25	Wed 20/8/25	448													
50	Installation of Lamp post	60 days	Mon 7/7/25	Thu 4/9/25														
51	Planter (RP 9)	40 days	Mon 16/9/24	Fri 25/10/24														
52	Planter (RP7)	19 days	Mon 10/2/25	Fri 28/2/25			28/2											
53	Planter (RP8)	15 days	Mon 23/6/25	Mon 7/7/25	445													
64	Soil replacement (RP7 & RP8)	7 days	Tue 8/7/25	Mon 14/7/25	453													
5	Procurement of safety mat for play area	76 days	Mon 16/9/24	Sat 30/11/24														
56	Installation of safety mat for play area	21 days	Tue 15/7/25	Mon 4/8/25	454													
7	Installation, Inspection/certification of play area equipment	14 days	Tue 5/8/25	Mon 18/8/25	456,489													
58	Seat	14 days	Tue 5/8/25	Mon 18/8/25	456													
59	Planter (RP10)	7 days	Tue 19/8/25	Mon 25/8/25	458													
0	Soil replacement (RP9& RP10)	7 days	Tue 26/8/25	Mon 1/9/25	459													
1	Irrigation system	21 days	Tue 5/8/25	Mon 25/8/25	456													
2	Edge and pavemen t(Stage 1)	40 days	Tue 5/8/25	Sat 13/9/25	456													
3	Soft landscaping works	42 days	Tue 5/8/25	Mon 15/9/25	456													
64	Fininshing to planter wall, seat wall and planter kerb	14 days	Tue 26/8/25	Mon 8/9/25	454,459													
5	Wing B	536 days	Wed 3/1/24	Sat 21/6/25		_							++	<u> </u>				
6	Shelter (1 nos)	371 days	Tue 26/3/24	Mon 31/3/25										0				
67	Submission of design	60 days	Tue 26/3/24	Fri 24/5/24														
8	Approval of design	21 days	Thu 11/7/24	Wed 31/7/24	467													
9	Construction of footing	45 days	Thu 15/8/24	Sat 28/9/24	468													
0	Fabrication of superstructure	151 days	Fri 1/11/24	Mon 31/3/25										31/3				
1	Construction of superstructure	14 days	Mon 10/2/25	Sun 23/2/25		23/2												
2	U channel and Catchpit (Stage 1)	211 days	Wed 3/1/24	Wed 31/7/24	442SS,443SS													
3	U channel and Catchpit (Stage 2)	109 days	Fri 1/11/24	Mon 17/2/25														
4	Lighting system (Stage 1)	287 days	Mon 10/6/24	Sun 23/3/25		_												
5	Cable Duct, pillar box, cable pit & lamp post footing	97 days	Mon 10/6/24	Sat 14/9/24				<u> </u>						+				
6	Installation of lamp post	14 days	Mon 10/3/25	Sun 23/3/25	419		1	0/3 🍗			2	3/3						
7	Hard Lanscape (Stage 1)	293 days	Mon 2/9/24	Sat 21/6/25		_								+				
8	Staircase B2 & B3	28 days	Mon 2/9/24	Sun 29/9/24		1							1 1	1				

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	aal Nama	D	Ctr-+	Tim:-I-	Dredses	3 M	onths Rolling	g Progran		rch 2025 to	o May 2	025)	1					
ID T	ask Name	Duration	Start	Finish	Predecessors	23/2	2/3		Ма 9/3	rch 2025 16/3	3	23/3		30/3	6/4	Ap	pril 2025 13/4	2
179	Edge	45 days	Mon 16/9/24	Wed 30/10/24				·										
30	Soil replacement	142 days	Mon 14/10/24	Sat 8/3/25	479			8/3	3									
31	Irrigation system	30 days	Tue 7/1/25	Wed 5/2/25	479													
32	Seat (PMI)	44 days	Fri 1/11/24	Sat 14/12/24														
33	Staircase B5 & B6	41 days	Wed 9/10/24	Mon 18/11/24														
34 35	Staircase B4 (PMI) pavement	18 days 30 days	Fri 1/11/24 Mon 10/3/25	Mon 18/11/24 Tue 8/4/25				10/3 🔤							8/4			
36	Fiinshing to planter wall, seat wall and planter kerb	28 days	Mon 10/3/25	Sun 6/4/25				10/3							6/4	•		
37	Open tender for play area equipment	41 days	Mon 2/9/24	Thu 31/10/24				10/5							0/4			
88	Design Submission for play area equipment	30 days	Mon 14/10/24	Tue 12/11/24	487													
39	Procurement of safety mat and equipment for play area	90 days	Mon 30/12/24	Sat 29/3/25	488								29/	3				
90	Play area slab	14 days	Mon 17/2/25	Sun 2/3/25	488		2/3											
91	Installation, Inspection/certification of for play equipment	30 days	Sun 30/3/25	Mon 28/4/25	489							30/	3					
92	Soft landscaping works	90 days	Mon 24/3/25	Sat 21/6/25							24/3							
93	Hard Lanscape (Stage 2)	192 days	Fri 1/11/24	Sun 11/5/25										+				
94	Irrigation system	14 days	Fri 1/11/24	Thu 14/11/24														
95	Staircase B1	28 days	Mon 6/1/25	Sun 2/2/25	494													
96	Edge	50 days	Mon 3/2/25	Mon 24/3/25	495							24/3	00.15					
97	Soil replacement	7 days	Mon 17/2/25	Fri 28/3/25	496	_							28/3	,				
98	pavement	30 days	Tue 1/4/25	Wed 30/4/25	497	_							1/4			4 4 1 4		
99	Fiinshing to planter wall, seat wall and planter kerb	14 days	Mon 14/4/25 Mon 28/4/25	Sun 27/4/25 Sun 11/5/25	499	_										14/4 🛛		
00	Soft landscaping works	14 days		Mon 2/6/25	499	_												
01 02	Hard Lanscape (Stage 3 Intersaction area) Shelter (1 nos)	214 days	Fri 1/11/24	Sun 27/4/25		_												
)2)3	Construction of footing	178 days 28 days	Mon 17/3/25	Sun 13/4/25		-			1	7/3							13/4	
)4	Fabrication of superstructure	122 days	Fri 1/11/24	Sun 2/3/25		_	2/3			// J							13/4	
05	Construction of superstructure	14 days	Mon 14/4/25	Sun 27/4/25	503	-	2.0									14/4	-	
06	Dwarf Wall DW26	28 days	Mon 17/3/25	Sun 13/4/25					1	7/3							13/4	
07	Staircase B7	14 days	Thu 2/1/25	Wed 15/1/25														
08	Edge	14 days	Tue 1/4/25	Mon 14/4/25	507	_							1/4				14/4	
09	Soil replacement	7 days	Tue 15/4/25	Mon 21/4/25	508											15/4	_	2
10	Irrigation system	14 days	Tue 22/4/25	Mon 5/5/25	509													22/4 🃩
11	pavement	14 days	Tue 6/5/25	Mon 19/5/25	510													
12	Fiinshing to planter wall, seat wall and planter kerb	14 days	Tue 20/5/25	Mon 2/6/25	511													
13	Soft landscaping works	14 days	Tue 20/5/25	Mon 2/6/25	511	_												
14	Wing D	975 days	Tue 30/8/22	Wed 30/4/25		_												
15	Shelter (2 nos)	178 days	Mon 2/9/24	Wed 26/2/25														
16	Construction of footing	28 days	Mon 2/9/24 Fri 1/11/24	Sun 29/9/24 Sun 15/12/24														
17 18	Fabrication of superstructure Construction of superstructure	45 days 45 days	Mon 13/1/25	Wed 26/2/25		2	6/2											
8 9	U channel and Catchpit (Stage 1, near Site E-1)	45 days 46 days	Tue 30/1/24	Fri 15/3/24		Z	0/ L											
20	U channel and Catchpit (Stage 2)	45 days	Fri 1/11/24	Sun 15/12/24		-												
21	Dwarf Wall DW24 & DW25	28 days	Mon 2/9/24	Mon 30/9/24		_												
22	Lighting system	213 days	Tue 2/7/24	Thu 30/1/25		-												
23	Cable Duct	125 days	Tue 2/7/24	Sun 3/11/24										<u> </u>				
24	cable pit	125 days	Tue 2/7/24	Sun 3/11/24		_												
25	Lamp post footing	125 days	Tue 2/7/24	Sun 3/11/24										+				
26	Installation of lamp post	45 days	Mon 25/11/24	Wed 8/1/25														
27	Pillar Box	60 days	Mon 2/12/24	Thu 30/1/25		_								+				
528	Irrigation system	45 days	Mon 2/12/24	Wed 15/1/25														
29	Retainning Wall	671 days	Tue 30/8/22	Sun 30/6/24		_												
48	Staircase D1	30 days	Tue 2/7/24	Wed 31/7/24		_												
19	Staircase D2 & D3	30 days	Wed 2/10/24	Thu 31/10/24		_												
50	Planter(community garden)	75 days	Mon 4/11/24	Fri 17/1/25		_												
51 52	Edge Planter/Seat	75 days 28 days	Mon 4/11/24 Thu 2/1/25	Fri 17/1/25 Wed 29/1/25		_												
52 53	Soil replacement	28 days 67.5 days	Fri 3/1/25	Mon 24/3/25	552							24/3						
53 54	irrigation	108 days	Mon 13/1/25	Wed 30/4/25	002							₩ 24/J						
54 55	pavement	30 days	Mon 10/2/25	Tue 11/3/25					11/3									
56	Finishing to planter wall, seat wall and planter kerb	30 days	Mon 17/2/25	Tue 18/3/25					······································	1	8/3							
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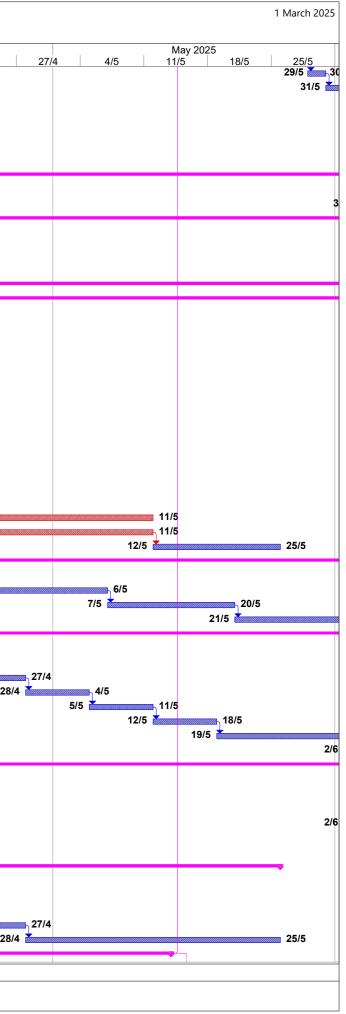
Т	ask Name	Duration	Start	Finish	Predecessors		ths Rolling Pro		Aarch 2025				April 2025				May 2025	
_		28 days	Mon 10/3/25	Sun 6/4/25		23/2	2/3	9/3	16/3	23/3	30/3	6/4	13/4	20/4	27/4	4/5	11/5 18/5	25
+	Railing/fence and signage	28 days	Mon 17/3/25	Sun 13/4/25		_	10		17/3			0/4	13/4					
	Store room	109 days	Fri 3/1/25	Mon 21/4/25														
-	Store room design	72 days	Fri 3/1/25	Sat 15/3/25					15/3									
	Store room foundation	21 days	Sun 16/3/25	Sat 5/4/25	561			10	6/3 📩			5/4						
	Store room installation	2 days	Sun 6/4/25	Mon 7/4/25	562							7/4						
	Store room E & M	14 days	Tue 8/4/25	Mon 21/4/25	563							8/4		21/4				
	Energization	14 days	Thu 21/8/25	Wed 3/9/25														
	CLP ducting and energization Section of Works 2A - Establishment Works for all Landscape Softworks	14 days	Thu 21/8/25 Thu 1/5/25	Wed 3/9/25 Wed 20/5/26	449	_												
	in Section 2 of the Works	ooo aayo																
	Commencement of Establishment Work for Section 2	0 days	Thu 1/5/25	Thu 1/5/25	514FF+1 day											1/5		
	Establishment Work Duration for Section 2	365 days	Thu 1/5/25	Wed 20/5/26	568SS-1 day										1/5			
	Completion of Works in Section 2 Section of Works 3 - Portions 1b. 3. 4. 5	0 days 763 days	Wed 20/5/26 Fri 30/7/21	Wed 20/5/26 Thu 31/8/23	569	_												
	Portion 1b	276 days	Tue 29/11/22	Thu 31/8/23		_												
-	Provision of site access [487 days after starting date as per Contract]	7 days	Tue 29/11/22	Mon 5/12/22	46SS	-												
	Mobilization& Site Clearance	14 days	Tue 6/12/22	Mon 19/12/22	573	-												
+	Time Risk Allowance	7 days	Tue 20/12/22	Mon 26/12/22	574													
	PMI 066	50 days	Thu 13/7/23	Thu 31/8/23														
	Sewerage pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	575													
;	Greywater pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	577SS													
)	Laying of 75mm thick milled asphalt chips	7 days	Fri 25/8/23	Thu 31/8/23	578FF													
)	Lighting	163 days	Wed 22/3/23	Thu 31/8/23		_												
1 2	Application for electricity power supply	83 days 140 days	Wed 22/3/23 Wed 22/3/23	Mon 12/6/23 Tue 8/8/23	581SS	_												
<u>-</u> }	Lighting design Installation including ducting, draw pit and lighting	23 days	Wed 22/3/23 Wed 9/8/23	Thu 31/8/23	582,578FF	-												
, 1	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23	002,01011	-												
5	Access date	0 days	Wed 29/9/21	Wed 29/9/21	51SS													
3	Deferred possession (CE 004 & 006)	61 days	Wed 29/9/21	Sun 28/11/21														
·	Provision of site access	7 days	Mon 29/11/21	Sun 5/12/21	586													
3	Mobilization& Site Clearance	14 days	Mon 6/12/21	Sun 19/12/21	587													
)	Preparation& submission of MS, Temp works, associated plans & docs	52 days	Mon 20/12/21	Wed 9/2/22	588	_												
)	Engineer AIP of MS, Temp works, plans& associated docs	21 days	Thu 10/2/22	Wed 2/3/22	589	_												
1	Installation of chain link fencing Soft landscaping works - hydroseeding	92 days 30 days	Thu 1/6/23 Wed 2/8/23	Thu 31/8/23 Thu 31/8/23	590	_												
23	GI works (PMI 006)	7 days	Mon 3/10/22	Sun 9/10/22		-												
4		30 days	Wed 2/8/23	Thu 31/8/23	591FF,592FF													
5	Portion 4	763 days	Fri 30/7/21	Thu 31/8/23														
6	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	56SS													
7	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23	592FF,601FF													
3	GI works (PMI 006)	10 days	Mon 10/10/22	Wed 19/10/22	593													
)	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23	0.00													
)	Provision of site access [212 days after starting date as per Contract]	7 days	Sun 27/2/22	Sat 5/3/22	61SS													
2	Soft landscaping works - hydroseeding Installation of chain link fencing	30 days 31 days	Wed 2/8/23 Tue 1/8/23	Thu 31/8/23 Thu 31/8/23	601FF													
	Section of Works 3A - Establishment Works for all Landscape Softworks	-	Fri 1/9/23	Fri 30/8/24														
	in Section 3 of the Works	-																
7	Section of Works 4 - Portions 6, 12	1856 days?	Fri 30/7/21	Wed 7/10/26														
3	Portion 6 Provision of site access [183 days after starting date as per Contract]	1179 days? 0 days	Sat 29/1/22 Sat 29/1/22	Mon 21/4/25 Sat 29/1/22	73SS	-												
,	Deferred possession	0 days 81 days	Sat 29/1/22 Sat 29/1/22	Sat 29/1/22 Tue 19/4/22	609													
-	Mobilization& Site Clearance	14 days	Wed 20/4/22	Tue 3/5/22	610													
+	Issuance of site sketch for retaining wall (Letter C10/500/400739)	0 days	Wed 14/9/22	Wed 14/9/22	611													
	Drainage works under PMQP 004	0 days	Fri 14/10/22	Fri 14/10/22	611													
	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	415SS													
	Design Change of Layout (PMI-085)	1 day	Wed 5/7/23	Wed 5/7/23														
	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	614SS	_												
	Approval of lighting design by LCSD	30 days	Thu 18/7/24	Fri 16/8/24	616													
_	Time Risk Allowance Retaining wall RWA20	14 days	Fri 14/10/22 Tue 2/5/23	Thu 27/10/22 Wed 8/1/25	617													
_	Excavation	618 days 112 days	Tue 2/5/23	Mon 21/8/23														
		. 12 ddys	100 210120	10/20														

					-	ent of Ander 3 Mo	onths Ro	olling Pro	gramme (I	March 202	5 to May	2025)	.acoupe v							r					
ID	Task Name	Duration	Start	Finish	Predecessors	23/2		2/3	۱ 9/3	March 202	5 6/3	23/3		30/3	6/4	A	pril 2025 13/4	20/4	1	27/4	4	/5	May 202	25 18/5	25/5
621	Blinding layer	110 days	Tue 9/5/23	Sat 26/8/23	620SS+7 days	LOIL		2/0	0.0		0/0	20/0			0/1		10/1	20/						10/0	
22	Base slab (21 bays)	169 days	Tue 16/5/23	Tue 31/10/23	621SS+7 days																				
23	Wall stem (21 bays)	136 days	Mon 3/7/23	Wed 15/11/23	622SS+10 days																				
24	Additional Sewage System (PMI 086)	170 days	Thu 30/11/23	Fri 17/5/24	623																				
25	PMI for Grey Water	30 days	Sat 18/5/24	Sun 16/6/24	624	_																			
26	pipe laying and drainage structure (Stage 1) pipe laying and drainage structure (Stage 2)	183 days	Wed 31/1/24 Thu 2/1/25	Wed 31/7/24 Wed 8/1/25		_																			
27 28	Backfilling (15 layers)	7 days 117 days	Tue 16/4/24	Sat 10/8/24		-																			
20 29	Retaining wall RWA19	382 days?	Fri 1/12/23	Mon 16/12/24		_																			
30	Blinding layer (1-13)	45 days	Fri 1/12/23	Sun 14/1/24		-																			
31	Base slab (1-13)	50 days	Mon 18/12/23	Mon 5/2/24	630SS+5 days	_																			
32	Wall stem (1-13)	59 days	Tue 2/1/24	Thu 29/2/24	631SS+9 days	-																			
33	pipe laying and drainage structure	30 days	Thu 1/8/24	Fri 30/8/24		_																			
34	Backfilling (1-11)	69 days	Mon 2/9/24	Sat 9/11/24		_																			
35	Blinding layer (14-18)	28 days	Sat 4/5/24	Fri 31/5/24		-																			
36	Base slab (14-18)	28 days	Sun 5/5/24	Sat 1/6/24																					
37	Wall stem (14-18)	45 days	Thu 9/5/24	Sat 22/6/24																					
38	Pipe Laying and Drainage Structure (12-18)	148 days?	Mon 22/7/24	Mon 16/12/24																					
39	Backfilling (12-18)	71 days	Mon 2/9/24	Mon 11/11/24																					
640	Railing for RWA 19 & 20	30 days	Mon 24/2/25	Tue 25/3/25		2						25/	3												
641	U channel & catchpit (1-11)	113 days	Mon 10/6/24	Mon 30/9/24		_																	+		
642	U channel & catchpit (12-18)	30 days	Sat 2/11/24	Sun 1/12/24		_																	+		
643	edging (1-11)	144 days	Mon 10/6/24	Thu 31/10/24		_							+												
644	edging (12-18)	6 days	Mon 18/11/24	Sat 23/11/24		_																			
45	pavement Finsihing	70 days	Mon 9/9/24 Mon 10/3/25	Mon 17/2/25 Sun 6/4/25	644	_		10/	3						6/4										
46 47	Soft landscaping works (Stage 1)	28 days 24 days	Mon 2/9/24	Wed 25/9/24	044	_		10/	ა						0/4										
47 48	Soft landscaping works (Stage 1)	30 days	Mon 3/3/25	Tue 1/4/25		_	3/3							1/4											
49	CCTV inspection, testing and commissioning	21 days	Tue 1/4/25	Mon 21/4/25		_	5/5						1/4	т				21/	4						
50	Irrigation system Submission	679 days	Tue 16/5/23	Mon 24/3/25		_													•						
51	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23		_						•													
52	Approval of WWO542	40 days	Wed 1/11/23	Sun 10/12/23	651	-																			
53	Approval of Form WWO 046	32 days	Mon 11/12/23	Thu 11/1/24	652	-																			
654	Approval of WWO542 (amendment)	30 days	Mon 30/12/24	Tue 28/1/25		-																			
655	Approval of Form WWO 046 (amendment)	30 days	Wed 29/1/25	Thu 27/2/25	654		27/2																		
656	Irrigation system	126 days	Mon 8/7/24	Mon 24/3/25								24/3													
657	Lighting system	276 days	Mon 24/6/24	Wed 26/3/25																					
658	Cable Duct, pillar box, cable pit & lamp post footing	130 days	Mon 24/6/24	Thu 31/10/24																					
659	Cable wiring & accessories	21 days	Mon 17/2/25	Sun 9/3/25					9/3																
60	Installation of lamp post	14 days	Mon 10/3/25	Sun 23/3/25	659			10/	3			23/3													
61	Testing and Commissioning of lighting	3 days	Mon 24/3/25	Wed 26/3/25	660						24/3	2	6/3												
62	Portion 12	1481 days?	Fri 30/7/21	Mon 18/8/25		_																			
63 64	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21		_																			
64 65	Mobilization& Site Clearance Preparation& submission of MS, Temp works, associated plans & docs	14 days	Fri 6/8/21 Fri 20/8/21	Thu 19/8/21 Sun 10/10/21		_																			
665 666	Engineer's AIP of MS, Temp works, plans& associated plans & docs	52 days 22 days	Mon 11/10/21	Mon 1/11/21		_																			
67	Additional GI at Portion 12 (PMI 005)	15 days	Wed 1/6/22	Wed 15/6/22		_																			
68	Drainage pipe and manhole	379 days	Tue 2/11/21	Tue 15/11/22		-																			
69 69	Excavation	364 days	Tue 2/11/21	Mon 31/10/22		-																			
670	Pipe laying and manhole consstruction including backfilling	245 days	Wed 16/3/22	Tue 15/11/22		_																			
571	Dwaf wall construction (Stage 1)	105 days	Wed 16/11/22	Tue 28/2/23		-																			
672	Awaiting for revision of design by PM due to interface	97 days	Wed 1/3/23	Mon 5/6/23																					
73	Staircase	527 days?	Tue 15/8/23	Wed 22/1/25		_																			
74	Footing (S1-10)	231 days	Tue 15/8/23	Mon 1/4/24																					
75	Slab & Vertical Wall (S1-10)	258 days	Mon 28/8/23	Sat 11/5/24																					
76	Wing Wall	70 days?	Sun 12/5/24	Sat 20/7/24																					
77	Seat and railing (precast)	113 days	Mon 2/9/24	Mon 23/12/24																					
578	Footing (S12-16)	141 days	Mon 13/5/24	Mon 30/9/24																					
79	Footing (S11)	14 days	Mon 7/10/24	Sun 20/10/24																					
680	Slab & Vertical & Wing Wall (S12-15)	123 days	Fri 31/5/24	Mon 30/9/24																					
581	Slab & Vertical & Wing Wall (S11)	48 days	Mon 21/10/24	Sat 7/12/24	679	1							1	1											

ID Ta	ack Nama	Duratian	Start	Finish	Predecessors	5 101	onths Rolling F	Togramm	March		0 Way 2	2023)				April 202	5	
	ask Name	Duration	Start	FINISN	Predecessors	23/2	2/3		9/3	1 2025 16/3	3	23/3		30/3	6/4	April 202		20/4
682	Slab & Vertical & Wing Wall (S16)	21 days	Thu 2/1/25	Wed 22/1/25														
83	Dwaft wall (resumption) - Stage 2	286 days	Mon 4/3/24	Sat 14/12/24														
84	Confirmation of recess cover for u channel	1 day	Thu 25/4/24	Thu 25/4/24														
85	U channel & catchpit (Stage 1-S1-16)	239 days	Mon 15/7/24	Mon 10/3/25				-	0/3									
86	Edging (Stage1)	169 days	Mon 26/8/24	Mon 10/2/25								1						
87	Paving (Stage1)	30 days	Mon 24/3/25	Tue 22/4/25	686						24/3							22
88	U channel & catchpit (Stage 2- Civic Plaza)	30 days	Thu 9/1/25	Fri 7/2/25														
89	Edging (Stage 2)	14 days	Tue 22/7/25	Mon 4/8/25	707													
90	Paving (Stage 2)	14 days	Tue 5/8/25	Mon 18/8/25	689													
91	U channel & catchpit (Stage 3 -Play Area)	82 days	Mon 2/12/24	Fri 21/2/25		1/2												
92	Edging (Stage 3)	28 days	Sat 22/2/25	Fri 21/3/25	691						21	/3						
93	Paving (Stage 3)	21 days	Sat 22/3/25	Fri 11/4/25	692	_				22						11/4		
94	Soft landscaping (Stage 1)	172 days	Wed 2/10/24	Sat 22/3/25								22/3						
95	Soft landscaping (Stage 2)	14 days	Tue 5/8/25	Mon 18/8/25	689	_												
96	Soft landscaping (Stage 3)	14 days	Tue 1/4/25	Mon 14/4/25									1/4			14/4		
97	Children play area slab CPA 1	28 days	Mon 3/3/25	Sun 30/3/25			3/3							30/3				
98	Installation, Inspection/certification of for play equipment	14 days	Mon 31/3/25	Sun 13/4/25									31/3 🚃			13/4		
99	Signage Post	21 days	Mon 3/3/25	Sun 23/3/25			3/3					23/3						
00	Drainage pipe and manhole (Storm Water-Stage 1)	133 days	Thu 19/12/24	Wed 30/4/25														
01	Excavation /Sheet Piling	14 days	Thu 19/12/24	Wed 1/1/25														
02	Pipe laying and manhole (TM/T2_1) consstruction including backfillir	g 38 days	Mon 24/3/25	Wed 30/4/25							24/3							
03	Drainage pipe and manhole (Storm Water-Stage 2)	44 days	Sat 22/2/25	Sun 6/4/25											-			
04	Excavation /Sheet Piling	14 days	Sat 22/2/25	Fri 7/3/25	702			7/3										
05	Pipe laying and manhole (AMH3a,) consstruction including backfilling	g 30 days	Sat 8/3/25	Sun 6/4/25	704		8/3	*							6/4			
06	Drainage pipe and manhole (Storm Water-Stage 3)	14 days	Tue 15/7/25	Mon 28/7/25														
07	Catchpit	7 days	Tue 15/7/25	Mon 21/7/25	1009													
08	U-channel & Pipe laying	14 days	Tue 15/7/25	Mon 28/7/25	1009	_												
09	Sunken Plaza	534 days	Mon 30/10/23	Tue 15/4/25														
10	Excavation	7 days	Mon 30/10/23	Sun 5/11/23		-												
'11	Subsoil drain	30 days	Thu 2/5/24	Fri 31/5/24		_												
'12	U channel and catchpit	43 days	Wed 19/6/24	Wed 31/7/24	711	_												
'13	Underground cable duct	30 days	Sat 1/6/24	Sun 30/6/24		_												
'14	RC structure - Stage 1	30 days	Thu 1/2/24	Fri 1/3/24		_												
'15	RC structure - Stage 2 (resumption)	49 days	Sat 15/6/24	Fri 2/8/24	714	_												
'16	Finishing	30 days	Mon 17/3/25	Tue 15/4/25		_			17/3							15	/4	
17	Soft landscaping	44 days	Mon 17/2/25	Tue 1/4/25										1/4				
'18	Irrigation system	240 days	Sun 1/12/24	Mon 28/7/25														
' 19	Irrigation system (Stage 1 - S1-16)	105 days	Sun 1/12/24	Sat 15/3/25						15/3								
20	Irrigation system (Stage 2 - Civic Plaza)	7 days	Tue 22/7/25	Mon 28/7/25	707	-												
21	Irrigation system (Stage 3 - Play Area)	7 days	Tue 1/4/25	Mon 7/4/25		_							1/4		7/4			
22	Lighting system	462 days	Mon 1/4/24	Sun 6/7/25		_												
23	Cable Duct, pillar box, cable pit & lamp post footing (Stage 1)	244 days	Mon 1/4/24	Sat 30/11/24		_												
'24	Installation of lamp post (Stage 1)	14 days	Mon 10/3/25	Sun 23/3/25		_	1	0/3				23/3						
25	Cable Duct, pillar box, cable pit & lamp post footing (Stage 2)	30 days	Mon 5/5/25	Tue 3/6/25		_						-						
26	Installation of lamp post (Stage 2)	28 days	Mon 2/6/25	Tue 1/7/25	725	-												
27	Cable Duct, pillar box, cable pit & lamp post footing (Stage 3)	60 days	Mon 17/2/25	Thu 17/4/25													17/4	
28	Installation of lamp post (Stage 3)	30 days	Mon 19/5/25	Tue 17/6/25	727													
29	Cable wiring & accessories	120 days	Thu 2/1/25	Thu 1/5/25		_												
30	Testing and Commissioning of lighting	7 days	Mon 30/6/25	Sun 6/7/25	729													
31	Foul & Grey Water (Civic Plaza)	267 days	Mon 11/11/24	Mon 4/8/25														
/32	Pipe laying (Stage 1)	30 days	Mon 10/3/25	Sun 20/4/25		_	-	0/3										20/4
33	GMH/FMH (Stage 1- FHM-B15 & GMH-13)	91 days	Mon 11/11/24	Fri 21/2/25		1/2												20/4
34	Pipe laying (Stage 2)	7 days	Tue 15/7/25	Mon 21/7/25	1009													
34 35	GMH/FMH (Stage 2 - FHM-B16 & GMH-14)	14 days	Tue 15/7/25	Mon 28/7/25	1009	_												
35	CCTV inspection, testing and commissioning	7 days	Tue 29/7/25	Mon 4/8/25	735	_												
30	Water Fountain (PMI)	210 days	Mon 2/12/24	Sun 29/6/25	100	_												
			Mon 2/12/24 Mon 2/12/24			_												
'38 '20	Approval of WWO542	60 days		Thu 30/1/25	720					4.74	•							
39	Approval of Form WWO 046	46 days	Fri 31/1/25	Mon 17/3/25	738					17/3	3							
40	power cable ducting and cable llaying	30 days	Tue 1/4/25	Wed 30/4/25									1/4					
41	Drain and plumbing pipe laying	14 days	Thu 1/5/25	Wed 14/5/25	740													
42	Fountain footing	14 days	Thu 15/5/25	Wed 28/5/25	741													

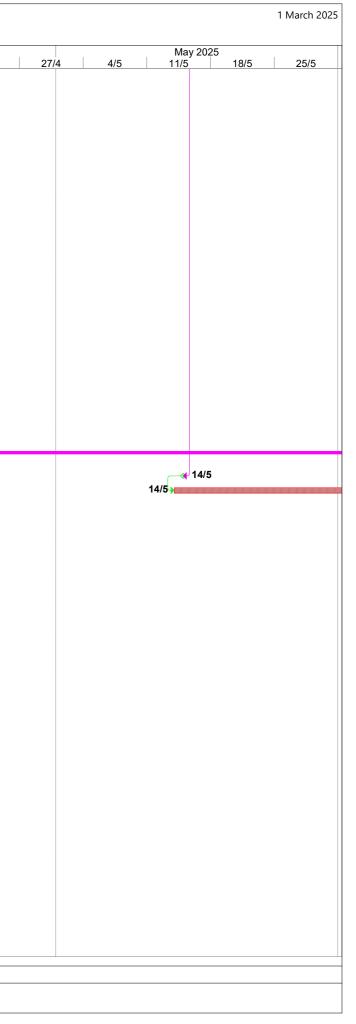


	nternational Water & Electric Corp.				Developm	ent of Anders 3 Mo	on Road Qu nths Rolling						Iscape V	/orks				
ID .	Task Name	Duration	Start	Finish	Predecessors	23/2	2/3	l logiali		h 2025 to h 2025 16/3		23/3		80/3	6/4	April 202 13/4		20/4
743	Installtion of fountain	2 days	Thu 29/5/25	Fri 30/5/25	742	23/2	2/3		9/3	10/3		23/3		0/3	0/4	13/4		20/4
744	WSD inspection and water sampling	30 days	Sat 31/5/25	Sun 29/6/25	743	-												
745	Railing	205 days?	Mon 16/9/24	Tue 8/4/25		-												
746	Design Submission	46 days?	Mon 16/9/24	Thu 31/10/24		_												
747	Mockup	60 days	Tue 19/11/24	Fri 17/1/25	746	_												
748	Fabrication	60 days	Sat 18/1/25	Tue 18/3/25	747					18	B/3							
749	Installation	21 days	Wed 19/3/25	Tue 8/4/25	748	-				19/3					8/4			
750	Energization	267 days	Mon 7/10/24	Mon 30/6/25		-												
751	Pillar Box	75 days	Mon 7/10/24	Fri 20/12/24														
752	CLP ducting and energization	28 days	Tue 3/6/25	Mon 30/6/25		_												
753	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	1856 days?	Fri 30/7/21	Wed 7/10/26														
754	Commencement of Establishment Work for Section 4	0 days	Tue 19/8/25	Tue 19/8/25	641FS+1 day,685FS+1 d	ay												
755	Establishment Work Duration for Section 4	365 days	Tue 19/8/25	Fri 25/9/26	754SS-1 day													
756	Completion of Works in Section 4	0 days	Fri 25/9/26	Fri 25/9/26	755													
757	Section of Works 5A - Portions 9, 10	1459 days	Fri 30/7/21	Sun 27/7/25														
758	Portion 9 [Sitting Out Area C & R2-1 Footpath]	1398 days	Wed 29/9/21	Sun 27/7/25														
759	Provision of site access [61 days after starting date as per Contract] 8 days	Wed 29/9/21	Wed 6/10/21	90SS													
760	Mobilization& Site Clearance	15 days	Thu 7/10/21	Thu 21/10/21	759	_												
761	Preparation& submission of MS, Temp works, associated plans & docs	75 days	Tue 1/2/22	Sat 16/4/22	760													
762	Engineer AIP of MS, Temp works, plans& associated docs	60 days	Sun 17/4/22	Wed 15/6/22	761													
763	Construction of U channel and catchpit	256 days	Thu 16/6/22	Sun 26/2/23	762,765FS-65 days,766F	S												
764	Time Risk Allowance	15 days	Mon 27/2/23	Mon 13/3/23	763													
765	Modification of existing surface drain at slope toe (PMI 032)	0 days	Fri 19/8/22	Fri 19/8/22														
766	Modification of existing surface drain at slope toe (PMI 050)	0 days	Wed 28/9/22	Wed 28/9/22	765													
767	Interface RS-1 and return of Site	574 days	Tue 14/3/23	Mon 7/10/24														
768	Resumption of modification of existing drain at slope toe (late return from RS-1)	n 60 days	Mon 14/10/24	Thu 12/12/24	767	_												
769	Backfilling and compaction of road materials	74 days	Fri 13/12/24	Mon 24/2/25	768	24/2												
770	Installation of E1 kerbs	15 days	Tue 25/2/25	Tue 11/3/25	769	5/2			11/3									
771	Construction of porous pavement footpath	28 days	Mon 17/3/25	Sun 13/4/25					17/3	3						13/4		
772	Installation of street furniture, traffic signs, bollards and road marking	ig28 days	Mon 14/4/25	Sun 11/5/25	771											14/4		
773	Landscaping works	28 days	Mon 14/4/25	Sun 11/5/25	771											14/4 📩		
774	Modification of existing kerb to drop kerb	14 days	Mon 12/5/25	Sun 25/5/25	773	1												
775	Lighting system (Footpath)	239 days	Tue 8/10/24	Tue 3/6/25														
776	Cable Duct, pillar box, cable pit & lamp post footing	137 days	Tue 8/10/24	Fri 21/2/25	767	1/2									h			
777	Installation of lamp post (by HWY)	30 days	Mon 7/4/25	Tue 6/5/25	776									7/4	-			
778	Cable wiring & accessories	14 days	Wed 7/5/25	Tue 20/5/25	777													
779	Testing and Commissioning of lighting	14 days	Wed 21/5/25	Tue 3/6/25	778													
780	Sitting Out Area (DOS)	804 days	Tue 16/5/23	Sun 27/7/25														
781	Site Formation	14 days	Mon 17/3/25	Sun 30/3/25					17/3	3			30 /	/3				
782	U channel and catchpit	14 days	Mon 31/3/25	Sun 13/4/25	781	1						:	31/3 🎽			13/4		
783	Kerb (E27)	14 days	Mon 14/4/25	Sun 27/4/25	782	1										14/4		
784	Drainage layer & sub soil drain	7 days	Mon 28/4/25	Sun 4/5/25	783													2
785	Soil replacement	7 days	Mon 5/5/25	Sun 11/5/25	784													
786	Concrete Seat	7 days	Mon 12/5/25	Sun 18/5/25	785	1												
787	Subbase and paving	14 days	Mon 19/5/25	Sun 1/6/25	786													
788	Moveable Planter	7 days	Mon 2/6/25	Sun 8/6/25	787													
789	Irrigation system (DOS)	804 days	Tue 16/5/23	Sun 27/7/25														
790	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23		_												
791	Approval of WW0542	40 days	Mon 18/12/23	Fri 26/1/24	790													
792	Approval of Form WWO 046	32 days	Sat 27/1/24	Tue 27/2/24	791	-												
793	Irrigation system	14 days	Mon 2/6/25	Sun 15/6/25	787	-												
794	Testing	28 days	Mon 16/6/25	Sun 13/7/25	793	-												
795	Reinstatement of cycling track and road marking	14 days	Mon 14/7/25	Sun 27/7/25	794	-												
796	Lighting system (Park Light- DOS)	424 days	Thu 28/3/24	Sun 25/5/25		-												
797	Design and fabrication for lamp post holding down bolt	94 days	Thu 28/3/24	Sat 29/6/24		-												
798	Cable Duct, pillar box, cable pit & lamp post footing	14 days	Tue 1/4/25	Mon 14/4/25		-							1/4			14/4	L	
790	Installation of lamp post	14 days	Mon 31/3/25	Sun 13/4/25	781	-							31/3			13/4		
800	Cable wiring & accessories	14 days 14 days	Mon 14/4/25	Sun 27/4/25	799	-						•				14/4		
801	CLP ducting and energization	28 days	Mon 28/4/25	Sun 25/5/25	800										ļ	- <i>ч</i> -т		2
801	Portion 10	1384 days	Fri 30/7/21	Tue 13/5/25	000													2
		1.304 UAVS	EU 30////1	THE 13/3/20														



					Developm	ent of Ander 3 M			nme (Marc															
D Task N	lame	Duration	Start	Finish	Predecessors			0 0	Marc	h 2025			00/0			April 2025		-				May 2025		0.51
3	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	95SS	23/2	2	3	9/3	16/3	2	3/3	30/3	6/4	•	13/4	20/4	2	27/4	4/5	<u> </u>	1/5	18/5	25/
4	Slope inspection & assessment work	50 days	Fri 6/8/21	Fri 24/9/21	803																			
5	Mobilization, access arrangements, logistic plan & Site Clearance		Sat 25/9/21	Mon 15/11/21	804	_																		
6	Preparation & submission of MS, Temp works, associated plans &	-	Tue 16/11/21	Wed 22/12/21	805	_																		
0	docs	57 days	10010/11/21	WG0 22/12/21	005																			
7	Time Risk Allowance	16 days	Thu 23/12/21	Fri 7/1/22	806	_																		
8	Main access blocked by C1at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23		-																		
)9	Engineer's AIP of MS, Temp.works, plans & associated docs	21 days	Sat 8/1/22	Fri 28/1/22	807																			
10	Demolition and removal of disused water pipe and sprinkler system	160 days	Sat 29/1/22	Thu 7/7/22	809	_																		
11	Repair of cracks at drainage channel and concrete berm	884 days	Thu 1/9/22	Fri 31/1/25	810	_																		
12	Reinstatement of joint sealant at drainage channel	899 days	Fri 16/9/22	Sun 2/3/25	810	_	2/3																	
13	Installation of display sign for slope registration	59 days	Wed 1/1/25	Fri 28/2/25																				
14	Slope Works at Feature No. 11NE-D/C947 (420m)	463 days	Sun 31/12/23	Sun 6/4/25		_																		
15	Removal of damaged wire mesh and installation of wire mesh	30 days	Sun 31/12/23	Mon 29/1/24	808									•										
	(Stage 1 at +330 mPD)	oo dajo	Guil G IN 12/20	11011 201 112-1	000																			
16	Installation of wire mesh (Stage 2 at +330mPD)	30 days	Tue 15/10/24	Wed 13/11/24																				
17	Filling of void with cement soil	7 days	Tue 18/2/25	Mon 24/2/25	852	24/2																		
18	Reinstatement of concrete berm	14 days	Mon 24/3/25	Sun 6/4/25	817						24/3			6/4										
19	Installation of hand railings	7 days	Sat 21/9/24	Fri 27/9/24	818																			
20	Repainting of handrailing	19 days	Mon 10/3/25	Fri 28/3/25		-		10/3 🔤				28	8/3											
21	Slope Works at Feature No. 11NE-D/C976 (185m)	198 days	Sat 21/9/24	Sun 6/4/25		_																		
22	Construction of concrete berm	21 days	Sat 21/9/24	Fri 11/10/24	818	-																		
23	Installation of hand railings	7 days	Sat 12/10/24	Fri 18/10/24	822																			
24	Repainting of existing steel maintenance staircase	7 days	Mon 24/3/25	Sun 30/3/25							24/3		30/3											
25		7 days	Mon 31/3/25	Sun 6/4/25	824									6/4										
20	re-construction											••												
26	Construction of wire mesh	73 days	Thu 2/1/25	Sat 15/3/25						15/3														
27	Slope Works at Feature No. 11NE-D/C977 (300m)	309 days	Sun 26/5/24	Sun 30/3/25						-			•											
28	Construction of wire mesh	28 days	Sat 1/2/25	Sat 29/3/25	826				E				29/3											
29	Construction of concrete berm	14 days	Sat 12/10/24	Fri 25/10/24	822																			
30	Construction of handrailing	7 days	Sun 26/5/24	Sat 1/6/24																				
31	Repair drainage channel	7 days	Mon 24/3/25	Sun 30/3/25							24/3		30/3											
332	Slope Works at Feature No. 11NE-D/C986 (190m)	332 days	Fri 3/5/24	Sun 30/3/25		_	_						•											
33	Filling of void with cement soil	7 days	Mon 24/3/25	Sun 30/3/25		_					24/3		30/3											
34	Construction of concrete berm	14 days	Fri 3/5/24	Thu 16/5/24		_																		
35	Installation of hand railings	6 days	Fri 26/7/24	Wed 31/7/24		-																		
336	Construction of wire mesh	55 days	Mon 20/1/25	Sat 15/3/25		-				15/3														
337	Slope Works at Feature No. 11NE-D/C1026 (60m)	441 days	Fri 18/8/23	Thu 31/10/24		-																		
338	Filling of void with cement soil	30 days	Wed 1/11/23	Thu 30/11/23		_																		
339	Installation of non-biodegradable erosion control mat	30 days	Fri 1/12/23	Sat 30/12/23	838	_																		
40	Hydroseeding	30 days	Wed 2/10/24	Thu 31/10/24																				
41	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23																				
342	Slope Works at Feature No. 11NE-D/C987 (90m)	863 days	Fri 8/7/22	Sat 16/11/24																				
		-			020																			
43	Construction of concrete berm	30 days	Mon 1/1/24	Tue 30/1/24	838 843	_																		
44	Installation of hand railings	7 days	Thu 8/2/24	Wed 14/2/24		_																		
45	Installation of non-biodegradable erosion control mat	30 days	Fri 8/7/22	Sat 6/8/22	810	_																		
46	Hydroseeding	16 days	Fri 1/11/24	Sat 16/11/24		_																		
47	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23		_																		
48	Slope Works at Feature No. 11NE-D/C871 (260m)	347 days	Sat 1/6/24	Tue 13/5/25		_													+			1		
49	Construction of lockable gate	14 days	Tue 1/4/25	Mon 14/4/25	853							1/	4											
50	Removal/Repair of existing damaged hand railings	14 days	Tue 15/4/25	Mon 28/4/25	849										15/	4			28/4					
51	Installation of hand railings	60 days	Sat 1/6/24	Tue 30/7/24																				
52	Reinstatement of concrete berm	15 days	Tue 29/4/25	Tue 13/5/25	850													29/4 👗				13/5		
53	Repainting of handrailing	85 days	Mon 6/1/25	Mon 31/3/25									31/3											
54	Slope Works at Feature No. 11NE-D/C979 (45m)	294 days	Fri 18/8/23	Thu 6/6/24																				
55	Construction of concrete berm	14 days	Fri 17/5/24	Thu 30/5/24																				
56	Installation of hand railings	7 days	Fri 31/5/24	Thu 6/6/24	855	1																		
57	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23		1																		
58	Slope Works at Feature No. 11NE-D/C988 (370m)	21 days	Fri 31/5/24	Thu 20/6/24		-																		
59	Construction of concrete berm	14 days	Fri 31/5/24	Thu 13/6/24	855	-																		
60	Installation of hand railings	7 days	Fri 14/6/24	Thu 20/6/24	859	-																		
61	Slope Works at Feature No. 11NE-D/C1003 (265m)	28 days	Fri 14/6/24	Thu 11/7/24		-																		
	Removal of disused pipes	21 days	Fri 14/6/24	Thu 4/7/24	859	-																		
62																			1					

ID '	Task Name	Duration	Start	Finish	Predecessors				3 3	,	ne (March 2025 to M March 2025	.,,					April 202	25	
863	Installation of hand railings	7 days	Fri 5/7/24	Thu 11/7/24	862	23/2		2/3		ç	9/3 16/3	23/3		30/3	6/4	ļ	13/4		20/4
864	Slope Works at Feature No. 11NE-D/FR657 (63m)	169 days	Thu 25/1/24	Thu 11/7/24	002	_													
865	Filling of void with cement soil	7 days	Fri 5/7/24	Thu 11/7/24	862	_													
866	Repainting of handrailing	140 days	Thu 25/1/24	Wed 12/6/24		-													
867	Slope Works at Feature No. 11NE-D/C1006 (60m)	57 days	Thu 1/2/24	Thu 28/3/24		_													
368	Construction of concrete berm (~30m)	28 days	Thu 1/2/24	Wed 28/2/24															
869	Installation of hand railings (~30m)	14 days	Thu 29/2/24	Wed 13/3/24	868														
870	Repainting of handrailing	14 days	Thu 14/3/24	Wed 27/3/24	869														
871	Slope Works at Feature No. 11NE-D/C980 (55m)	104 days	Thu 29/2/24	Tue 11/6/24															
872	Construction of concrete berm	14 days	Thu 29/2/24	Wed 13/3/24	868														
873	Installation of hand railings	7 days	Thu 14/3/24	Wed 20/3/24	872														
874	Repainting of handrailing	90 days	Thu 14/3/24	Tue 11/6/24		_													
875	Slope Works at Feature No. 11NE-D/C174 (70m)	14 days	Thu 14/3/24	Wed 27/3/24	070	_													
876	Reinstatement of sprayed concrete	14 days	Thu 14/3/24	Wed 27/3/24	872	_													
877	Slope Works at Feature No. 11NE-D/C688 (167m)	28 days	Wed 31/1/24	Tue 27/2/24		_													
878	Construction of tree rings x9	28 days	Wed 31/1/24	Tue 27/2/24		_													
879 880	Reinstatement of sprayed concrete Slope Works at Feature No. 11NE-D/C978 (350m)	7 days 1349 days	Thu 17/8/23 Fri 30/7/21	Wed 23/8/23 Tue 8/4/25		_													
880 881	Construction of concrete berm	1349 days 8 days	Fri 30/7/21	Fri 6/8/21		-													
881	Installation of hand railings	8 days	Fri 30/7/21	Fri 6/8/21		-													
883	Repairing of existing steel maintenance staircase	8 days	Tue 1/4/25	Tue 8/4/25		_							1/4		8/	14			
884	Slope Works at Feature No. 11NE-D/C1004 (375m)	7 days	Tue 1/4/25	Mon 7/4/25		-										-			
885	· · ·	7 days	Tue 1/4/25	Mon 7/4/25		-							1/4		7/4	L			
886	Slope Works at Feature No. 11NE-D/C998 (409m)	760 days	Mon 14/2/22	Thu 14/3/24		-													
887	Construction of concrete maintenance staircase	19 days	Mon 14/2/22	Fri 4/3/22		-													
888	Handrailing	14 days	Fri 1/3/24	Thu 14/3/24		-													
889	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works	1856 days?	Fri 30/7/21	Wed 7/10/26		-	-												
890	Commencement of Establishment Work for Section 5A	0 days	Wed 14/5/25	Wed 14/5/25	802FF+1 day														
891	Establishment Work Duration for Section 5A	365 days	Wed 14/5/25	Thu 4/6/26	890SS-1 day														
892	Completion of Works in Section 5A	0 days	Thu 4/6/26	Thu 4/6/26	891														
893	Section of Works 5B - Portion 11	954 days	Sun 27/2/22	Mon 7/10/24															
894	Portion 11	954 days	Sun 27/2/22	Mon 7/10/24															
895	Provision of site access [212 days after starting date as per Contract]	0 days	Sun 27/2/22	Sun 27/2/22		_													
896	Portion 9 delay (Handover site to other Contractor)	231.47 days	Tue 14/3/23	Sat 31/8/24	896	_													
897	Provision of site access and stockpile area for works at Portion S Section of Works 6 - Portion 7		Mon 7/10/24 Tue 29/11/22	Mon 7/10/24 Fri 5/4/24	090	_													
898 899	Portion 7	494 days 494 days	Tue 29/11/22	Fri 5/4/24		-													
899 900	Access date [487 days after starting date as per Contract]	0 days	Tue 29/11/22	Tue 29/11/22	112SS	_													
900 901	Deferred possession (PMI 58)	90 days	Tue 29/11/22	Sun 26/2/23	900	-													
902	Provision of site access	7 days	Mon 27/2/23	Sun 5/3/23	901	-													
903	Mobilization& Site Clearance	60 days	Mon 6/3/23	Thu 4/5/23	902	-													
904	Time Risk Allowance	15 days	Fri 5/5/23	Fri 19/5/23	903	-													
905	Excavation/backfilling and compaction of material	30 days	Fri 1/12/23	Sat 30/12/23	903,904	_													
906	Construction of U-channels with cover and catchpits	30 days	Sun 31/12/23	Mon 29/1/24	905	-													
907	Road Paving work and asscociates street furniture	15 days	Tue 19/3/24	Fri 5/4/24		-													
908	Soft landscaping works	10 days	Wed 20/3/24	Fri 29/3/24															
909	Irrigation system	196 days	Sat 16/9/23	Fri 29/3/24															
910	Contractor's design	45 days	Sat 16/9/23	Mon 30/10/23															
911	Approval of WWO542	30 days	Wed 1/11/23	Thu 30/11/23	910	_													
912	Approval of Form WWO 046	21 days	Fri 1/12/23	Thu 21/12/23	911														
913	Underground water supply for irrigation	10 days	Fri 22/12/23	Sun 31/12/23	912														
914	Irrigation system	10 days	Fri 1/3/24	Sun 10/3/24															
915	Modification of Manhole and catchpits	12 days	Mon 18/3/24	Fri 29/3/24															
916	Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works	858 days	Tue 29/11/22	Fri 4/4/25											J				
917	Commencement of Establishment Work for Section 6	0 days	Tue 29/11/22	Tue 29/11/22															
918	Completion of Works in Section 6	0 days	Fri 5/4/24	Fri 5/4/24	917														
919	Establishment Work Duration for Section 6	365 days	Fri 5/4/24	Fri 4/4/25	918										4/4				
920 944	Section of Works 7A - Portions 13a, 14 (DELETED) Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)	479 days 365 days	Fri 30/7/21 Fri 30/7/21	Sun 20/11/22 Fri 29/7/22		_													



						nent of Ander 3 Mo	son Road onths Roll	Quarry ing Pro	gramm	e (March	n 2025 to	reening o May	g and La 2025)	nascape	> vvork	KS				
ID	Task Name	Duration	Start	Finish	Predecessors	23/2	2	/3	9	March /3	n 2025 16/3	3	23/3		30/3		6/4	April 2025 13/4	5	20/4
945		0 days	Fri 30/7/21	Fri 30/7/21																
946		365 days	Fri 30/7/21	Fri 29/7/22																
947		0 days	Fri 29/7/22	Fri 29/7/22	946															
948		1281 days	Sat 26/2/22	Fri 29/8/25											++					
949	Portion 13b & 15	1281 days	Sat 26/2/22	Fri 29/8/25											++					
950	Provision of site access [212 days after starting date as per Contract]	7 days	Sun 27/2/22	Sat 5/3/22	135															
951	Deferred possession	52 days	Sat 26/2/22	Mon 18/4/22	135SS															
952	Mobilization& Site Clearance	21 days	Tue 19/4/22	Mon 9/5/22	951															
953		15 days	Tue 10/5/22	Tue 24/5/22	952,365															
954	Portion 13b	1193 days	Wed 25/5/22	Fri 29/8/25	953										+					
955	-	1113 days	Wed 25/5/22	Tue 10/6/25											+					
956		60 days	Wed 25/5/22	Sat 23/7/22	952,365															
957		447 days	Sun 24/7/22	Fri 13/10/23	952,365,953,956															
958	Wall RWA10	447 days	Sun 24/7/22	Fri 13/10/23																
959	Excavation	100 days	Sun 24/7/22	Mon 31/10/22	956															
960	Cutting away existing coping by wire sawing machine	75 days	Tue 1/11/22	Sat 14/1/23	959															
961	Hacking away existing wall stem by hydraulic breaker (existing vertical bar to be retained for further connection)	45 days	Sun 15/1/23	Tue 28/2/23	960															
962	Construction of new RC wall stem	86 days	Mon 17/7/23	Tue 10/10/23	961															
963	Backfilling	4 days	Tue 10/10/23	Fri 13/10/23																
964	Wall RWA9	165 days	Thu 16/3/23	Sun 27/8/23																
965	Excavation	15 days	Thu 16/3/23	Thu 30/3/23	961FS+15 days															
966	Hacking away existing wall stem by hydraulic breaker (existing vertical bar to be retained for	60 days	Fri 31/3/23	Mon 29/5/23	965															
967		75 days	Sat 10/6/23	Wed 23/8/23	966	_														
968	Backfilling	4 days	Thu 24/8/23	Sun 27/8/23	967															
969	Bearing	252 days	Thu 16/3/23	Wed 22/11/23		_														
970	Material submission for appproval	30 days	Thu 16/3/23	Fri 14/4/23		_														
971	Fabrication	106 days	Sat 15/4/23	Sat 29/7/23	970															
972	Testing	29 days	Sun 30/7/23	Sun 27/8/23	971															
973	Installation	7 days	Wed 1/11/23	Tue 7/11/23	972,963,968															
974	Grouting to bearing bases and curing	15 days	Wed 8/11/23	Wed 22/11/23	973															
975	Precast beams	536 days	Wed 7/6/23	Sat 23/11/24																
976	Submission for approval	78 days	Wed 7/6/23	Wed 23/8/23																
977	Fabrication	58 days	Wed 4/10/23	Thu 30/11/23	976															
978	Post-tensioning and grouting	59 days	Tue 31/10/23	Thu 28/12/23	977FS-31 days															
979	Capping ends	3 days	Fri 29/12/23	Sun 31/12/23	978															
980	Installation	10 days	Mon 15/1/24	Wed 24/1/24	979,974															
981	Grouting to bearing tops and curing	15 days	Thu 25/1/24	Thu 8/2/24	980															
982	Fabrication of permanent formwork	30 days	Fri 1/3/24	Sat 30/3/24																
983	Installation of permanent formwork (stage 1)	31 days	Sun 31/3/24	Tue 30/4/24	982															
984		15 days	Wed 1/5/24	Wed 15/5/24	983															
985	Removal of Formwork (Stage 1)	7 days	Thu 16/5/24	Wed 22/5/24	984															
986	Edge beam painting suspended due to inclement weather	3 days	Wed 19/6/24	Fri 21/6/24	985															
987	Edge beam painting (Stage 1)	3 days	Sat 22/6/24	Mon 24/6/24	986															
988	Stage 2 TTA & Falsework	13 days	Fri 19/7/24	Wed 31/7/24	987															
989	Installation of permanent formwork (stage 2)	21 days	Thu 1/8/24	Wed 21/8/24	988															
990	Casting of in-situ tie beams & slab (Stage 2)	28 days	Thu 1/8/24	Wed 28/8/24	988															
991	Removal of Formwork (Stage 2)	4 days	Thu 29/8/24	Sun 1/9/24	990															
992	Edge beam painting (Stage 2)	3 days	Mon 23/9/24	Wed 25/9/24																
993		6 days	Wed 25/9/24	Mon 30/9/24																
994		21 days	Mon 24/2/25	Sun 16/3/25		2					16/3		_							
995	-	7 days	Mon 17/3/25	Sun 23/3/25	994					17/3			23/3							
996	-	64 days	Mon 7/10/24	Mon 9/12/24																
997		45 days	Mon 17/2/25	Wed 2/4/25												2/4				
998	, , , ,	30 days	Mon 10/2/25	Tue 11/3/25						11/3										
999		28 days	Wed 12/3/25	Tue 8/4/25	998				12/3						-		8/4			
1000		21 days	Wed 9/4/25	Tue 29/4/25	999											9	9/4 🎽			
1001		7 days	Wed 30/4/25	Tue 6/5/25	1000															
1002	Paving	21 days	Wed 7/5/25	Tue 27/5/25	1001	1									11					

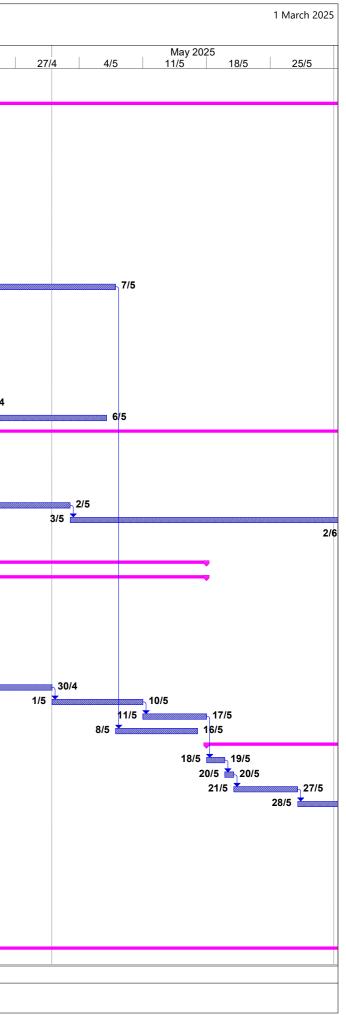
Task Milestone 🔶 Summary

						1 March 2025
	27/4	[4/5	May 2025 11/5	i 18/5	25/5
	29 /	4				
30/4	L 🎽	-	6/5 7/5	 		27/5

					Developme	3 Mo	onths Ro	lling Prog	ramme (M	larch 2025	5 to May 2	and Lands 025)		DIKS					
ID	Task Name	Duration	Start	Finish	Predecessors	23/2		2/3	M 9/3	arch 2025 16	5/3	23/3	30)/3	6	/4	April 2025 13/4	5	20/4
003	Railing	14 days	Wed 28/5/25	Tue 10/6/25	1002														
004	Portion 14	239 days	Mon 9/12/24	Mon 4/8/25										+					
005	Demolition of Existing u-channel	14 days	Mon 9/12/24	Tue 31/12/24															
006	Construction of storm manhole and catchpit	97 days	Mon 9/12/24	Sat 15/3/25						15/3									
007	Construction of u-channel	14 days	Mon 6/1/25	Thu 27/3/25	1006							27/3	3						
800	Installation of cable drawpit	7 days	Tue 1/7/25	Mon 7/7/25	1020														
009	Installation of Lamp post footing	7 days	Tue 8/7/25	Mon 14/7/25	1008	_													
010	Erection of Lamp post	7 days	Tue 15/7/25	Mon 21/7/25	1009	_													
011	Irrigation	7 days	Tue 15/7/25	Mon 21/7/25	1009	_													
012	Paving blocks	14 days	Tue 22/7/25	Mon 4/8/25	1011	_													
013	Covered Walkway under PMQP 004	695 days	Thu 5/10/23	Fri 29/8/25		-								+					
014	Awaiting finished level from PM due to interfacing party	138 days	Thu 5/10/23	Mon 19/2/24		_													
015	Contractor Design	192 days	Thu 12/9/24	Sat 22/3/25		-													
016	Submission	178 days	Thu 12/9/24	Sat 8/3/25					8/3										
017	Approval	14 days	Sun 9/3/25	Sat 22/3/25	1016	_		9/3				2/3							
018	Construction	99 days	Mon 24/3/25	Mon 30/6/25	4047	-													
019	Footing	30 days	Mon 24/3/25	Tue 22/4/25	1017	_		ſ			24/3								22
020	Superstructure	30 days	Sun 1/6/25	Mon 30/6/25	1054	-													
021	Lighting system	173 days	Mon 10/3/25	Fri 29/8/25	1019SS	-		40/2								0/4			
022	Design Submission	30 days	Mon 10/3/25	Tue 8/4/25	1022	-		10/3								8/4			
023	Approval	30 days	Wed 9/4/25	Thu 8/5/25	1022	_									9/4 🞽				
024	Installation of Lighting	30 days	Tue 1/7/25	Wed 30/7/25		_													
025	Energization	15 days	Thu 31/7/25	Thu 14/8/25	1024,1010,1020	_													
026	Testing and Commissioning	15 days	Fri 15/8/25	Fri 29/8/25 Sat 19/7/25	1025														
027	Additional works under PMQP 004 Issuance of PMQP 004	1000 days	Mon 24/10/22 Mon 24/10/22	Mon 24/10/22		-													
028 029	Hoarding and gate around Site G2	0 days	Wed 1/3/23	Mon 31/7/23	1028	_													
029	Greywater drainage pipes and manholes at Portion 12	153 days 60 days	Thu 1/2/24	Sun 31/3/24	1020	_													
030	Revised slope works including U-channel & catchpit	1000 days	Mon 24/10/22	Sat 19/7/25															
031	Late handover of site by others	195 days	Mon 24/10/22	Sat 15/7/23	1028SS	-													
032	Installation of monitoring instruments	14 days	Sun 17/12/23	Sat 0/3/23	102033	_													
033	Slope B3	506 days	Fri 1/3/24	Sat 30/12/25	1052														
034	Works area handed over by others	46 days	Fri 1/3/24	Mon 15/4/24	1033	-													
036	Confirmation of Slope Profiles	38 days	Sat 27/7/24	Mon 2/9/24	1035	-													
037	Preparation of Slope details	69 days	Fri 24/5/24	Wed 31/7/24	1036	-													
038	Form slope formation	18 days	Mon 2/9/24	Thu 19/9/24	1037	_													
039	Construction of sub-soil & laying filter layer	28 days	Fri 20/9/24	Thu 17/10/24	1038	_													
040	Construction of no fine concrete for sub-soil	7 days	Fri 18/10/24	Thu 24/10/24	1039	_													
041	Backfill & compacted soil & SRT (37 layers)	188 days	Mon 2/12/24	Sat 7/6/25	1040														
042	Construction of concrrete berm/ handrails	14 days	Sun 8/6/25	Sat 21/6/25	1041	-													
043	Construction of surface drain	14 days	Sun 22/6/25	Sat 5/7/25	1042	-													
044	Soil mix	14 days	Sun 6/7/25	Sat 19/7/25	1043	-													
045	Planting	14 days	Tue 17/12/24	Mon 30/12/24		-													
046	Slope B4	558 days	Tue 2/1/24	Sat 12/7/25			-												
047	Preparation of Slope details	23 days	Tue 2/1/24	Wed 24/1/24		-													
048	Form slope formation	17 days	Tue 20/2/24	Thu 7/3/24		-													
049	Construction of sub-soil & laying filter layer	9 days	Tue 20/2/24	Wed 28/2/24		-													
050	Construction of no fine concrete for sub-soil	9 days	Tue 20/2/24	Wed 28/2/24		-													
051	Backfill & compacted soil & SRT (4 layers)	49 days	Fri 1/3/24	Thu 18/4/24		-													
052	Inclement weather	156 days	Fri 19/4/24	Sat 21/9/24	1051	1													
053	Backfill & compacted soil & SRT (5-8 layers)	20 days	Mon 28/10/24	Sat 16/11/24	1052	1													
)54	Backfill & compacted soil & SRT (9-29 layers)	165 days	Wed 18/12/24	Sat 31/5/25	1052														
55	-resume Construction of concrrete berm/ handrails	14 days	Sun 1/6/25	Sat 14/6/25	1054	-													
)55)56	Construction of surface drain	14 days	Sun 15/6/25	Sat 28/6/25	1055	-													
)57	Soil mix	14 days	Sun 29/6/25	Sat 12/7/25	1056	-													
)58	Planting	14 days	Sun 29/6/25	Sat 12/7/25	1056	-													
)58)59	Revised access road including roundabout, drainage, sewerage and water mains	991 days	Mon 14/11/22	Thu 31/7/25										+					
060	Drainage	184 days	Wed 1/3/23	Thu 31/8/23															
)61	manholes connection for drainage	184 days	Wed 1/3/23	Thu 31/8/23		-													
062	sewerage (Stage 1)	184 days	Wed 1/3/23	Thu 31/8/23		1													

							1 March 2025
20/4	27/	4	4/5		May 2025 11/5	18/5	25/5 28/5
22/4							1/6
				8/5			
							1/6

·			0 4		- ·														
D Task	Name	Duration	Start	Finish	Predecessors	23/2	2/3	.	9/3	March	2025 16/3		23/3		30/3	6	6/4	April 2025 13/4	
063	sewerage (Stage 2 -connect to G2-B4)	30 days	Mon 13/1/25	Tue 11/2/25						· · · ·									
64	Concrete pavement at roundabout (Stage 1)	61 days	Thu 1/6/23	Mon 31/7/23															
65	footpath	991 days	Mon 14/11/22	Thu 31/7/25															
66	Implementation of TTA	1 day	Mon 12/12/22	Mon 12/12/22	1028														
67	UU detection	7 days	Tue 13/12/22	Mon 19/12/22	1066														
68	Trial pit	14 days	Tue 20/12/22	Mon 2/1/23	1067														
069	HYD condition letter and WSD's approval	60 days	Mon 8/7/24	Mon 30/9/24															
070	Change design by Highways Department Lighting	67 days	Fri 29/9/23	Mon 4/12/23	1069														
071	TTA design review and revise	50 days	Tue 5/12/23	Tue 23/1/24	1070	_													
072	Implementation of TTA	1 day	Wed 24/1/24	Wed 24/1/24	1071														
073	UU detection	3 days	Thu 25/1/24	Sat 27/1/24	1072	_													
074	Trial pit	7 days	Sun 28/1/24	Sat 3/2/24	1073	_													
075	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	1074														
076	G-2 Interface issue	199 days	Sat 2/3/24	Mon 16/9/24	1075														
)77	Watermain along new footpath at Slope B4	45 days	Mon 24/3/25	Wed 7/5/25								24/3 🛛							
078	UU protection, relocation of hydrant	30 days	Mon 23/12/24	Tue 21/1/25															
079	Cable for relocation of lamp post	14 days	Mon 17/3/25	Sun 30/3/25	1063					17/3	-			<mark>ر سس</mark> م ع	0/3				
080	Relocation of Lamp post	14 days	Mon 31/3/25	Sun 13/4/25	1079								3	31/3 📥				13/4	
081	Installation of site UU lead in (by others) - Stage 1	60 days	Mon 25/11/24	Thu 23/1/25															
082	(Telecom ,CLP, gas) Installation of site UU lead in (by others) - Stage 2	30 days	Mon 10/3/25	Tue 8/4/25		_		10/3									8/4		
502	(Telecom ,CLP, gas)			100 01 1/20				10/0											
083	Installation of site UU lead in (by others) - Stage 3 (CLI	30 days	Wed 2/7/25	Thu 31/7/25	1114														
084	New Lamp Post (Highways)	14 days	Wed 9/4/25	Tue 22/4/25	1082											9/4			
085	paving	14 days	Wed 23/4/25	Tue 6/5/25	1084														23/4
086	Park Lighting system (DOS)	953 days	Mon 14/11/22	Mon 23/6/25															
087	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	614SS														
088	Design Change of Layout (PMI-085)	1 day	Mon 8/1/24	Mon 8/1/24	615SS														
089	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	616SS														
090	LCSD's approval of lighting system	30 days	Thu 18/7/24	Fri 16/8/24	617SS	_													
091	Installation including ducting and draw pit	30 days	Thu 3/4/25	Fri 2/5/25	1090,997									3	/4 🖌				
092	Installation of lighting	30 days	Sat 3/5/25	Sun 1/6/25	1091	_													
093	Energization Testing and Commissioning	15 days	Mon 2/6/25 Tue 17/6/25	Mon 16/6/25 Mon 23/6/25	1092	_													
)94)95	Portion 15- Sewerage Works	7 days 349 days	Mon 3/6/24	Sat 17/5/25	1095	_													
095	Pipe pile wall	349 days	Mon 3/6/24	Sat 17/5/25		_													
090	Temp Work re-design due to unforeseen ground	141 days	Mon 3/6/24	Mon 21/10/24		_													
551	condition	aujo																	
098	Implementation of TTA	2 days	Mon 21/10/24	Tue 22/10/24															
099	UU Detection	1 day	Wed 23/10/24	Wed 23/10/24	1098														
100	Trial pit	7 days	Thu 24/10/24	Wed 30/10/24	1099														
101	Pipe Plie Installation	14 days	Sun 3/11/24	Sat 16/11/24	1100														
102	Excavation	56 days	Sun 17/11/24	Sat 11/1/25	1101	_													
103	Sewerage manhole (G2-B4) and HDPE pipe	45 days	Mon 17/3/25	Wed 30/4/25	1102					17/3									
104	Backfill	10 days	Thu 1/5/25	Sat 10/5/25	1103	_													
105	roadwork reinstatement	7 days	Sun 11/5/25	Sat 17/5/25	1104	_													
106	Watermain pipe works (uphill of On Kin Road)	9 days	Thu 8/5/25	Fri 16/5/25	1077	_													
107	Watermain downhill of On Kin Road	45 days	Sun 18/5/25	Tue 1/7/25	4405	_													
108	Implementation of TTA	2 days	Sun 18/5/25	Mon 19/5/25	1105														
109	UU Detection	1 day	Tue 20/5/25	Tue 20/5/25	1108	_													
110	Trial pit	7 days	Wed 21/5/25	Tue 27/5/25	1109	_													
111	Watermain pipe works	14 days	Wed 28/5/25	Tue 10/6/25	1110	_													
112	WSD connection Backfill	7 days	Wed 11/6/25	Tue 17/6/25	1111														
113	Backhill roadwork reinstatement	7 days	Wed 18/6/25 Wed 25/6/25	Tue 24/6/25 Tue 1/7/25	1112	_													
114 115	roadwork reinstatement	7 days 699 days	Fri 19/5/23	Wed 16/4/25	1113	_													
115	Contractor's design	-	Fri 19/5/23	Wed 16/4/25 Wed 2/8/23		_													
	Approval of WWO542	76 days	Thu 3/8/23	Fri 1/9/23	1116	_													
117	Approval of WW0542 Approval of Form WWO 046	30 days		Fri 22/9/23	1116	_													
118		21 days	Sat 2/9/23		1117	_													
119	Underground water supply for irrigation	60 days	Sat 23/9/23	Tue 21/11/23		_	2/2											40	14
120 121	Irrigation system	45 days	Mon 3/3/25 Fri 30/7/21	Wed 16/4/25			3/3											16/	4
	Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	1856 days?	FII 30///21	Wed 7/10/26															



	ernational Water & Electric Corp.				Developme	ent of Anderso 3 Mon	n Road Quari ths Rolling Pr	ry Site - Infras ogramme (M	structure, Gre arch 2025 to I	ning and Lan lay 2025)	dscape Wo	orks								1 March
D Ta	ask Name	Duration	Start	Finish	Predecessors	23/2	2/3	Ma 9/3	arch 2025 16/3	23/3	30/	/3	6/4	April 2025 13/4	20/4	27/4	4/5	May 2025 1/5	18/5	25/
2	Commencement of Establishment Work for Section 7B	0 days	Fri 29/8/25	Fri 29/8/25	954	2012	2/0	0/0	10/0	20/0			0/4	10/4	20/4		4/0	 1/0	10/0	20/
3	Establishment Work Duration for Section 7B	365 days	Fri 29/8/25	Wed 7/10/26	1122SS-1 day															
F	Completion of Works in Section 7B	0 days	Wed 7/10/26	Wed 7/10/26	1123	_														
5	Section of Works 8 - Portion 16	556 days	Thu 16/6/22	Sat 23/12/23		_														
;	Portion 16	556 days	Thu 16/6/22	Sat 23/12/23		_														
	Site access date [321 days after starting date as per Contrac	tl 0 davs	Thu 16/6/22	Thu 16/6/22	151SS	_														
3	Time Risk Allowance	24 days	Thu 16/6/22	Sat 9/7/22	1127															
9	Late handover of site by others	350 days	Thu 16/6/22	Wed 31/5/23	1128															
)	Mobilization& Site Clearance	4 days	Thu 1/6/23	Sun 4/6/23	1129	_														
	Removal of existing rock slope	45 days	Mon 5/6/23	Wed 19/7/23	1130	_														
1 2	Construction of fill slope A7	90 days	Thu 20/7/23	Tue 17/10/23	1131	_														
	Construction of fill slope A8	80 days	Sun 30/7/23	Tue 17/10/23	1132FF	_														
3	•	· ·				_														
4	Construction of slope surface drainage system	45 days	Wed 18/10/23	Fri 1/12/23	1132	_														
5	Hydroseeding	22 days	Sat 2/12/23	Sat 23/12/23	1134	_														
6		30 days	Fri 24/11/23	Sat 23/12/23	1134FF															
7	Thrust boring of additional pipe from S201D to MHT1	78 days	Mon 2/10/23	Mon 18/12/23																
;	Section of Works 8A - Establishment Works for all Landscape Softworks in Section 8 of the Works		Fri 27/9/24	Fri 26/9/25																
9	Commencement of Establishment Work for Section 8	0 days	Fri 27/9/24	Fri 27/9/24	1140SS	_														
10	Establishment Work Duration for Section 8	365 days	Fri 27/9/24	Fri 26/9/25	1135															
1	Completion of Works in Section 8	0 days	Fri 26/9/25	Fri 26/9/25	1140FF															
2	Section of Works 9 - Portion 17	1341 days	Fri 30/7/21	Mon 31/3/25																
3	Portion 17	1341 days	Fri 30/7/21	Mon 31/3/25																
4	Provision of site access [212 days after starting date as per	0 days	Sun 27/2/22	Sun 27/2/22	162SS															
5	Contract] Deferred possession	30 days	Sun 27/2/22	Mon 28/3/22	1144	_														
6	Slope inspection & assessment work & Tree Survey	23 days	Tue 29/3/22	Wed 20/4/22	1145	_														
	Mobilization, access & Site Clearance	-			1145	_														
7	-	15 days	Thu 21/4/22	Thu 5/5/22		_														
8	Time Risk Allowance	14 days	Fri 6/5/22	Thu 19/5/22	1146,1147															
9	Access blocked by C1 at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23																
50	Demolition and removal of disused water pipe and sprinkler system	50 days	Fri 20/5/22	Fri 8/7/22	1148															
51	Repair of cracks at drainage channel and concrete berm	777 days	Sat 14/1/23	Fri 28/2/25	1150	_	28/2													
52	Reinstatemnt of joint sealant at drainage channel	776 days	Sun 15/1/23	Fri 28/2/25			28/2													
53	Installation of display sign for slope registration	60 days	Tue 31/12/24	Fri 28/2/25			28/2													
54	Reinstatement of eroded soil berm due to inclement weather		Thu 7/9/23	Fri 12/1/24		-	_0/_													
-	(PMI 117)	120 dayo	1110 170/20	11112/1124																
55	Slope Works at Feature No. 11NE-D/C948 (310m)	352 days	Sun 31/12/23	Mon 16/12/24																
56	Construction of concrete berm	14 days	Thu 25/7/24	Wed 7/8/24	1209															
7	Repainting of existing steel maintenance staircase	7 days	Tue 10/12/24	Mon 16/12/24	1156															
58	Construction of wire mesh	352 days	Sun 31/12/23	Mon 16/12/24	1149															
9	Slope Works at Feature No. 11NE-D/C949 (603m)	1154 days	Fri 30/7/21	Wed 25/9/24																
0	Construction of concrete berm	14 days	Fri 30/7/21	Thu 12/8/21																
1	Installation of hand railings	7 days	Fri 13/8/21	Thu 19/8/21	1160															
62	Construction of wire mesh	30 days	Tue 27/8/24	Wed 25/9/24	1158,1161															
3	Slope Works at Feature No. 11NE-D/C981 (390m)	1170 days	Fri 13/8/21	Fri 25/10/24		-														
4	Construction of concrete berm	14 days	Fri 13/8/21	Thu 26/8/21	1160	-														
5	Installation of hand railings	7 days	Fri 27/8/21	Thu 2/9/21	1164															
6	Construction of wire mesh	30 days	Thu 26/9/24	Fri 25/10/24	1162															
7	Slope Works at Feature No. 11NE-B/C1013 (340m)	1186 days	Fri 27/8/21	Sun 24/11/24		_														
8	Construction of wire mesh	30 days	Sat 26/10/24	Sun 24/11/24	1166	_														
9	Construction of concrete berm	14 days	Fri 27/8/21	Thu 9/9/21	1164	_														
	Installation of hand railings	-		Thu 16/9/21	1169	_														
'0 '1	-	7 days	Fri 10/9/21		1109	_														
	Construction of concrete maintenance staircase with hand railings		Mon 19/2/24	Fri 22/3/24		_														
72	Slope Works at Feature No. 11NE-B/C902 (360m)	326 days	Wed 24/1/24	Sat 14/12/24		_														
3	Filling of void with concrete	20 days	Mon 25/11/24	Sat 14/12/24		_														
4	Construction of concrete berm	14 days	Wed 24/1/24	Tue 6/2/24																
5	Installation of hand railings	7 days	Wed 7/2/24	Tue 13/2/24																
76	Repainting of existing steel maintenance staircase	14 days	Thu 28/3/24	Wed 10/4/24																
77	Slope Works at Feature No. 11NE-B/C224 (40m)	14 days	Wed 16/10/24	Tue 29/10/24																
'8	Reinstatement of sprayed concrete	14 days	Wed 16/10/24	Tue 29/10/24																
'9	Slope Works at Feature No. 11NE-B/C225 (60m)	153 days	Wed 30/10/24	Mon 31/3/25		-										Yana ana ana ana ana ana ana ana ana ana				
0	Reinstatement of sprayed concrete	14 days	Wed 30/10/24	Tue 12/11/24	1178															
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Number of with account of the server of the serve		al Water & Electric Corp.				Developme	ent of Ander 3 M	son Road onths Rolli	Quarry S	Site - Infras	ED/2020/0 structure, arch 2025	Greening to May 2	and Landso 2025)	ape Works										1 March
Image: Section of Advance Sectin of Advance Section of Advance Section of Advance Section o	ID Task Nam	e	Duration	Start	Finish	Predecessors	00/0		10				22/2	20/2	614			20/4			4/5	May 202	10/5	05/5
1 Inducational productional productin productional productional productional productional pr	181		43 days	Mon 17/2/25	Mon 31/3/25		23/2		/3	9/3		0/3	23/3		0/4	13/4	4	20/4	2	.//4	4/5	11/5	10/0	25/5
4689899	182		36 days	Mon 13/1/25	Mon 17/2/25		-																	
S Reversale price Maye Maye Maye Maye Maye Y Initiation diversingation construction Maye Maye Maye Maye Y Initiation diversingation construction Maye Maye Maye Maye Y Initiation diversingation construction Maye Maye Maye Maye Y Initiation diversingation Maye Maye Maye Maye Maye Y Initiation diversingation Maye Maye Maye Maye Maye Y Initiation diversingation Maye Maye Maye Maye Maye Y Maye Maye Maye Maye Maye Maye Maye Y Maye	83	Construction of 225 mm U channel (60m)	30 days	Tue 18/2/25	Wed 19/3/25	1182						19/3												
Base Starting Startin	84	Slope Works at Feature No. 11NE-B/C1014 (90m)	14 days	Wed 13/11/24	Tue 26/11/24		-																	
0 watakis descongulation and and one of the constraints No.000 No.000 0 matakis descongulation and and one of the constraints No.000 No.000 0 Regulation and and one of the constraints No.000 No.000 0 Regulation and and one of the constraints No.000 No.000 0 Regulation and and one of the constraints No.000 No.000 0 See State Stat	85	Remove water pump & electric box	14 days	Wed 13/11/24	Tue 26/11/24	1180	-																	
8 Historecting No.9	86		518 days																					
0 History drives/arg No.	87	Installation of non-biodegradable erosion control mat	90 days																					
0 Neproduct diversities 9 and 100 model Neproduct diversities Neproduct diversities 2 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 4 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 6 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 6 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 6 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 7 Character diversities Neproduct diversities Neproduct diversities Neproduct diversities 8 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 9 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 10 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities 10 Aminational diversities Neproduct diversities Neproduct diversities Neproduct diversities </td <td>88</td> <td></td>	88																							
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0 Construction of Wine Field Section 0 Single Wind Section 000000000000000000000000000000000000	99						-																	
1 Stope Works af Facture No. 11%-02699 (2009) 38 days Mon 19902 Wei 1977 2 Filting vicids in concrete bern 7 dys Nu 4774 1987 3 Construction of concrete bern 6 dys Mon 19922 1172 4 Installation of hand anlings 8 dys Nu 19722 Nu 19723 6 Stope Works af Facture No. 11%-02672 (259m) 82 days Staf722 Nu 19723 1 Fe 80233 7 Installation of hand anlings 80 days Staf722 Nu 19724 1 Fe 80234 8 Reparating of handmaing 80 days Staf722 Nu 19724 1 Fe 80234 9 Reparating of handmaing 60 days Staf722 Nu 19724 1 7 10 9 Reparating of handmaing 7 days Nu 19724 1 7 10 1 7 10 10 Stope Works af Facture No. 11%-0008 (dbags 2) 4 days Nu 19724 1 7 10 1 7 10 10 Stope Works af Facture No. 11%-02698 (dbags 2) 6 days Nu 19724 1 7 10 1 7 10 10 Staffaction of Invicio	00						-																	
2 Filing virus with concrete 7 days The 27024 Wei 37024 198 3 Construction of concrete brum 7 days The 47724 Wei 10724 120 4 Construction of concrete brum 80 days The 16722 Filing virus with source brum 90 days The 16722 Filing virus with source brum 90 days No 17622 Filing virus with source brum 90 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum 7 days No 17622 Filing virus with source brum No 176224 Filing virus with source brum No 176244 Filing virus with source brum N	01						-																	
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6 Reparing a handraling 0 days The 6P723 Fri 4023 Incell 6 Slope Works at Feature No. 11NE-C0027 (250m) 952 days Sal 9772 Mon 16/1224 Incell 7 Installation of handralings 00 days Sin 9772 Mon 16/1224 Incell 8 Repaining of handraling 00 days Sin 24/23 Mon 16/1224 12/0 9 Reinstalement of concrete berm 7 days Tiru 21/125 Sin 15/24 12/0 10 Slope Works at Feature No. 11NE-C000 (Slope 2) 45 days Tiru 21/125 Sin 15/224 12/0 2 Installation of non-biologisodable ension control and 4 5 days Tiru 21/125 Sin 15/224 12/0 4 Installation of non-biologisodable ension control and 30 days Mon 21/224 Tiru 31/124 1 1 6 Scottmore Line of two Burket Non Line Scotting 2 of the Works Sin 52/25 Incell 1 1 Sin 24/25 Mon 21/224 Tiru 31/124 1 6 Scottmore Line Morks In All Tree Protection and Preservatino Mon 23/25 Mon 23/25	03	Construction of concrete berm	7 days	Thu 4/7/24	Wed 10/7/24	1202	-																	
6 Stope Works if Sebure No. HNE-20C372 (250m) 82 days 82 days 82 days 82 days 80 days 83 day722 To 69/022 To 69/022 7 Installation of nand ratings 80 days 83 un 70/22 To 69/022 To 69/02 To 69/02 9 Renaring of none-biod gas dable econo control mat 7 days Tu 201/23 Non 16/124 100 1 Stope Works at Febure No. 1NE-C960 (Stag 27) 45 days Tu 201/25 81 152/25 Intelligities 2 Installation of non-biod gas dable ecoin control mat 36 days Mon 12/24 To 81 11/24 Intelligities 4 Installation of non-biod gas dable ecoin control mat 36 days Mon 21/24 Intelligities Intelligities 5 Section of Works B - Establishmet Work for Section 9 0 days Mon 30/26 Intelligities Intelligities 6 Commencement of Establishmet Work for Section 9 0 days Fin 28/25 Mon 30/26 Intelligities 7 Establishmet Work for Section 9 0 days Fin 28/25 Mon 30/26 Intelligities 6	04	Installation of hand railings	60 days	Mon 19/6/23	Thu 17/8/23		-																	
7 Installation of hand rallings 60 days See 97/2 Tue 69/22 Tue 69/22 8 Repaining of handsaling 30 days Sup 2 Mon 16/22 12/0 9 Reinstatement of concrete bounder boun	05	Repainting of handrailing	30 days	Thu 6/7/23	Fri 4/8/23		_																	
8 Repaining of handraling 30 days Sun 24/23 Mon 15/23 I 9 Reinstatement of concepte berm 7 days Tue 01/12/4 Mon 16/21/4 12/10 0 Filing of vide who concepte berm 7 days Tue 01/12/4 Mon 16/91/2/4 12/10 1 Slope Works at Fature No. 11NE-CI900 (Stage 2) 45 days Tue 21/12/5 Sat 15/2/5 I 2 Installation of non-biodegradable ensinc north of mat 45 days Mon 12/2/4 Tue 31/12/5 Sat 15/2/5 I 3 Spee Works at Fature No. 11NE-GIG00 and Preservation Work for all Landscape 30 days Mon 21/2/2 Tue 31/12/2 I I 4 Installation of non-biodegradable ensinc north of mat 30 days Mon 21/2/2 Tue 31/12/2 I I 5 Soction of Morks SA - Establishment Works for all Landscape Sof says Fi 28/2/2 Mon 31/2 I I 7 Establishment Work Divation of Section 9 0 days Fi 28/2/2 I I I 8 Completion of Works In Section 9 0 days Fi 30/1/2	06	Slope Works at Feature No. 11NE-D/C872 (250m)	892 days	Sat 9/7/22	Mon 16/12/24		-																	
9 Reinstatement of concrete berm 7 days Tue 101/2/4 Mon 16/12/4 1210 0 Filling of void with concrete 7 days Tue 31/2/2 Mon 16/12/4 1210 1 Shope Works at Feature No. 11NE-C900 (Stage 2/4) 4 days Tue 31/2/2 1313 2 Installation of non-biodegradable erosion control mat 45 days Tue 31/12/4 16 3 Shope Works at Feature No. 11NE-C900 (Stage 2/4) 50 days Mon 21/12/4 16 4 Installation of non-biodegradable erosion control mat 30 days Mon 21/12/4 16 5 Section of Works at Feature No. 11NE-BC080 30 days Mon 21/12/4 16 6 Commencement of Stabilishment Work for Section 9 0 days Mon 93/26 11/12/4 7 Estabilishment Work for Section 9 0 days Mon 93/26 12/16 7 Estabilishment Work for Section 9 0 days Mon 93/26 12/16 8 Completion of Works in Section 9 0 days Mon 93/26 12/17 8 Completion Work for Section 9 0 days)7	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22																			
0 Filing of void with concrete 7 days Tue 3/12/4 Mon 9/12/4 103 1 Slope Works at Fature No. 1NE-C900 (Stage 2) 45 days Tue 2/12/5 Staf 15/2/5 2 Installation of non-biodegradable ension control mat 45 days Tue 2/12/5 Staf 15/2/2/5	08																							
I Slope Works at Feature No. 11NE-C/900 (Stage 2) 45 days Thu 2/1/25 Stat 15/2/25 I 2 Installation of non-biodegradable encoin ontrol mat 45 days Thu 2/1/25 Sat 15/2/25 I 3 Slope Works at Feature No. 11NE-BO903 30 days Mon 2/1/24 Tes 11/1/24 I	09						_																	
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5 Section of Works 9A - Establishment Works for all Landscepe Softworks in Section 9 of the Works 365 days Fi 28/25 Mon 9/326 Section 2 6 Commencement of Establishment Work for Section 9 0 days Fi 28/25 Mon 9/326 Section 3 Section 2 Section 3 Section 3 Section 3 Mon 9/326 Section 3 Mon 9/326 Section 3 Section 3 Mon 9/326 Section 3 Section 3 Go days Fi 30/721 Section 3 Section 3 Go days Fi 30/721 Section 3 Section 3 Section 3 Section 3 <			-				_																	
6 Commencement of Establishment Work for Section 9 0 days Fri 28/2/5 Fri 28/2/5 Fri 28/2/5 Mon 9/3/26 1216 7 Establishment Work Duration for Section 9 0 days Mon 9/3/26 1217 <td>15</td> <td>Section of Works 9A - Establishment Works for all Landscape</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	15	Section of Works 9A - Establishment Works for all Landscape					•								 									
8Completion of Works in Section 90 daysMon 9/3/26Mon 9/3/2612179Section of Works 10 - All Tree Protection and Preservation Works1202 daysFri 30/7/21Tue 12/11/240Commencement of All Tree Protection and Preservation Work0 daysFri 30/7/21Fri 30/7/211All Tree Protection and Preservation Work1202 daysFri 30/7/21Tue 12/11/24	216		0 days	Fri 28/2/25	Fri 28/2/25		-	28/2																
9Section of Works 10 - All Tree Protection and Preservation Works1202 days?Fri 307/21Tue 12/11/240Commencement of All Tree Protection and Preservation Work0 daysFri 307/21Fri 307/211All Tree Protection and Preservation Work1202 daysFri 307/21Tue 12/11/24	17	Establishment Work Duration for Section 9	365 days	Fri 28/2/25	Mon 9/3/26	1216	28/2	7																
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1 All Tree Protection and Preservation Work 1202 days Fri 30/7/21 Tue 12/11/24	20		0 days	Fri 30/7/21	Fri 30/7/21		-																	
	21	All Tree Protection and Preservation Work	1202 days	Fri 30/7/21	Tue 12/11/24		_																	
	22	Completion of All Tree Protection and Preservation Work	0 days	Tue 12/11/24	Tue 12/11/24	1221	-																	
		Task Critical Task	M	lilestone	Summa	ary									 							 		
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d on revised programme dated 28 Feb 2025	d on revised p	programme dated 28 Feb 2025								Page 20 /20														



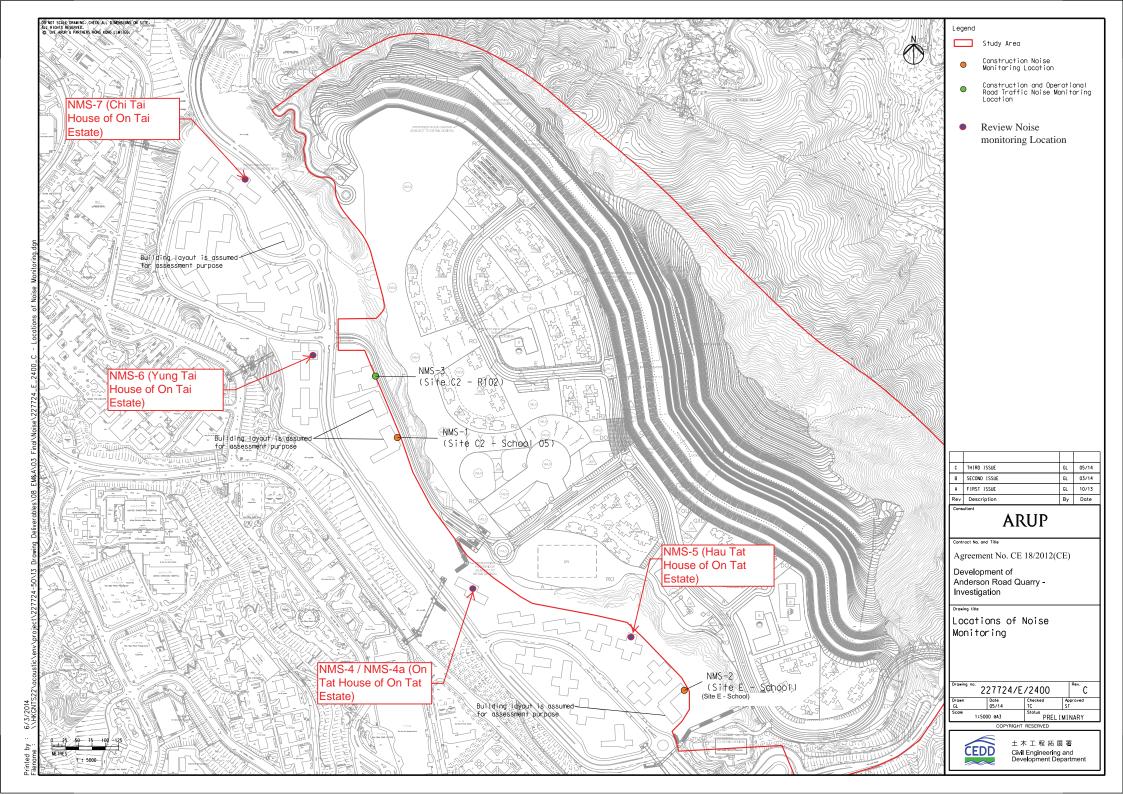
Appendix D

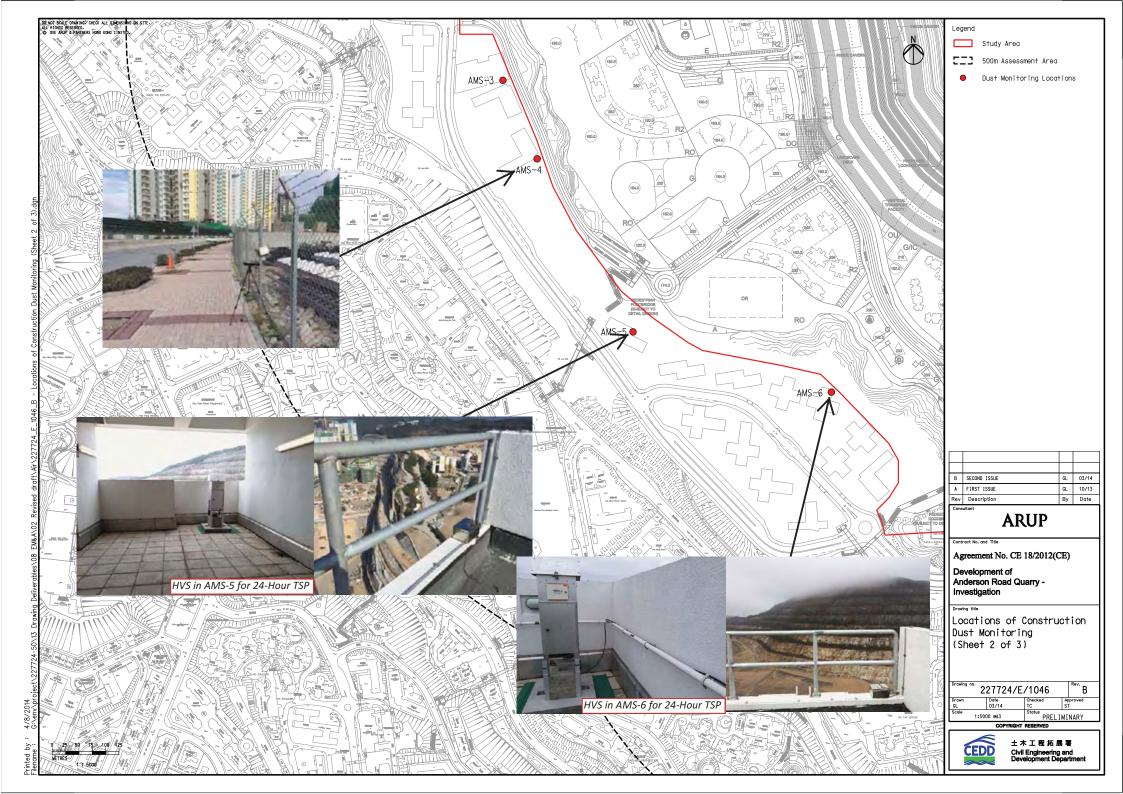
Monitoring Locations for Impact Monitoring

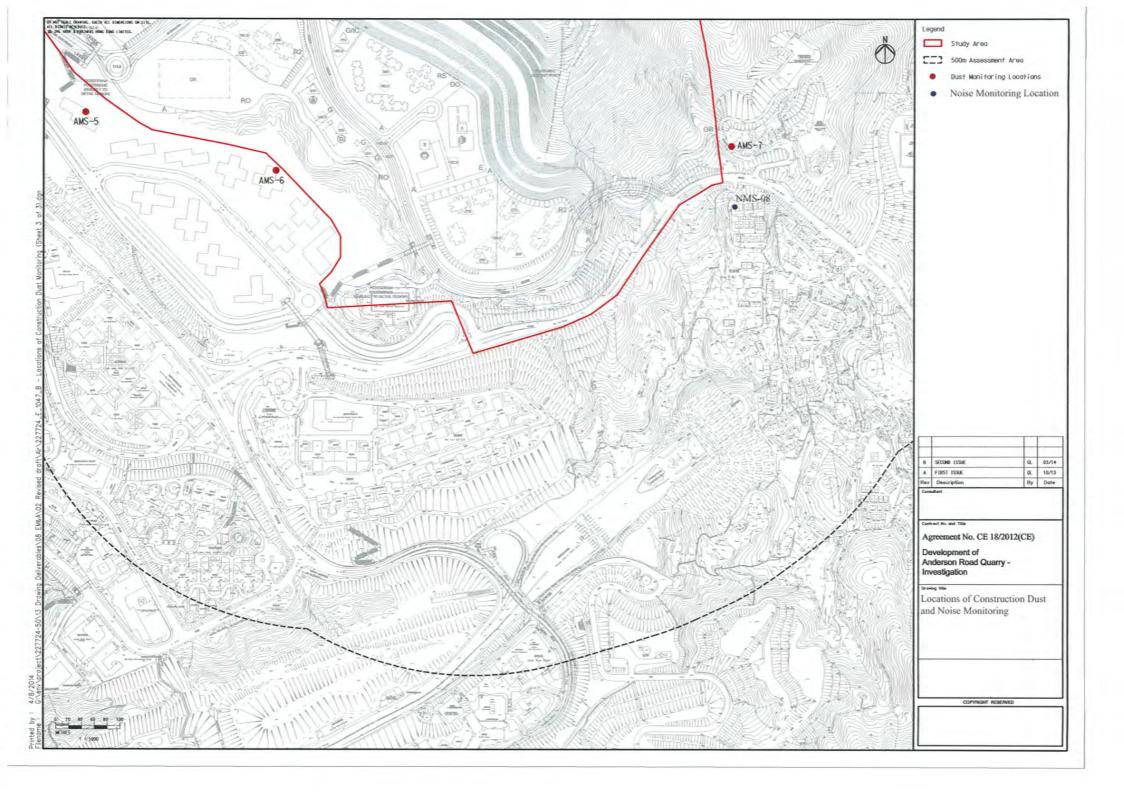


Monitoring Locations for Contract 1 (NE/2016/01)



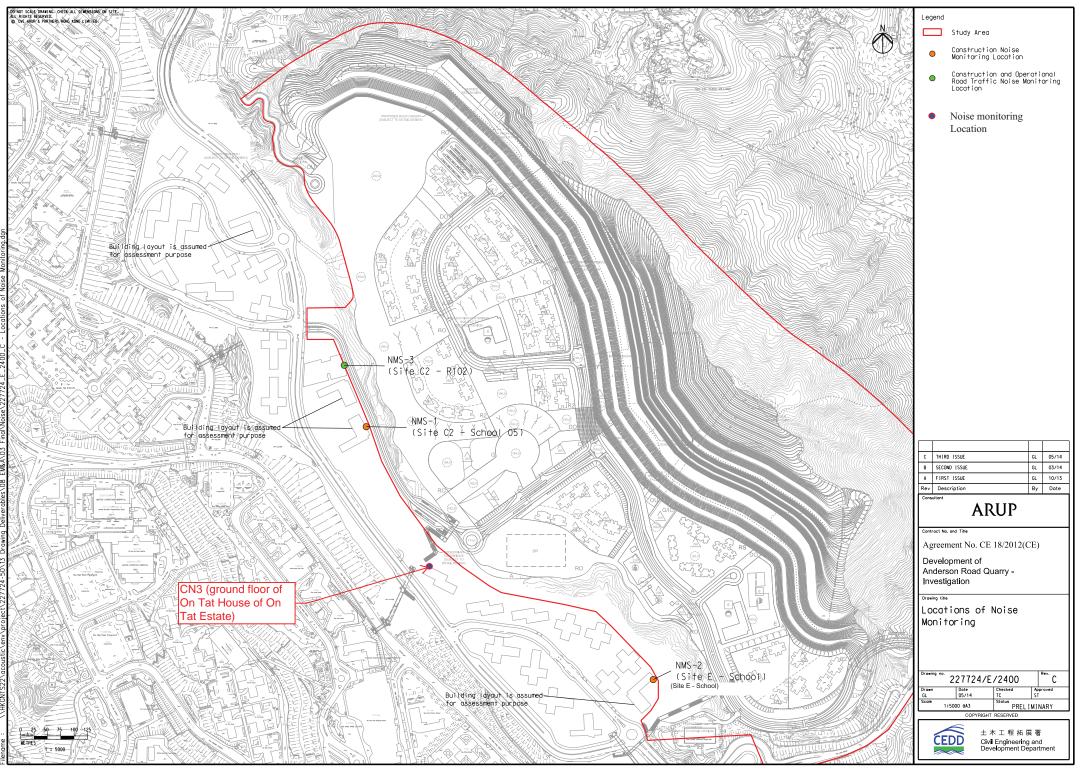






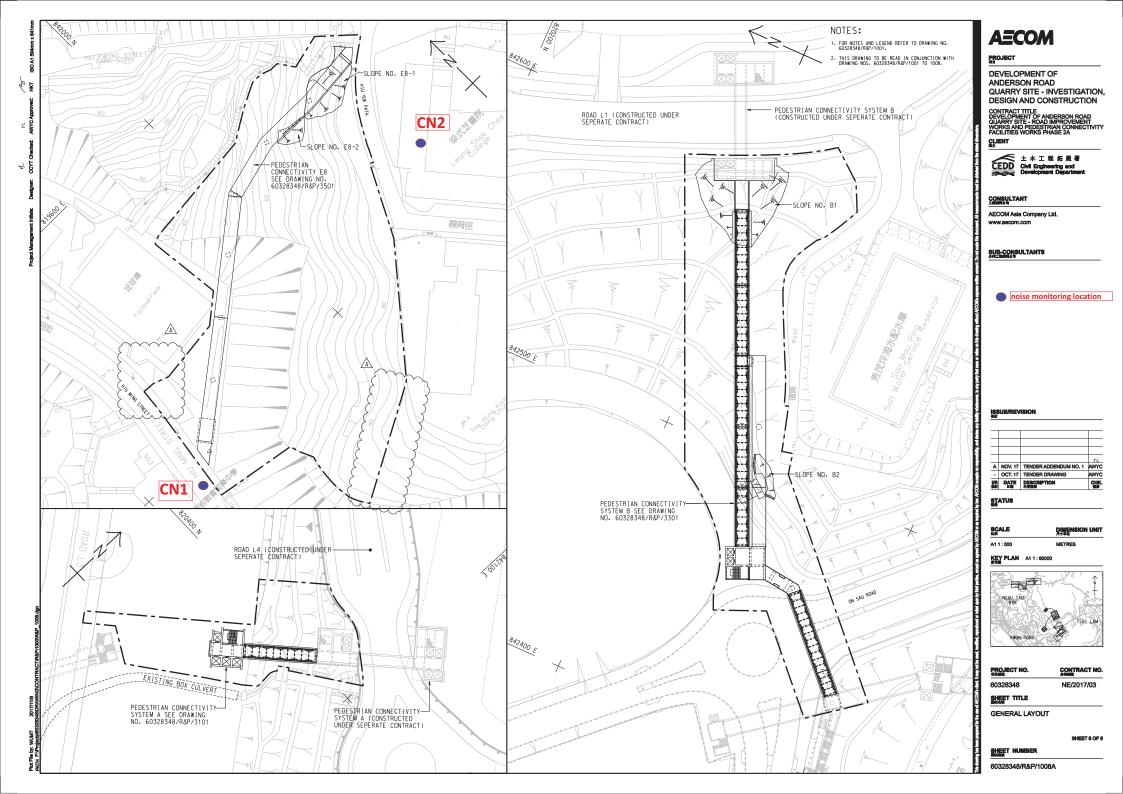


Monitoring Locations for Contract 3 (NE/2017/03)



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

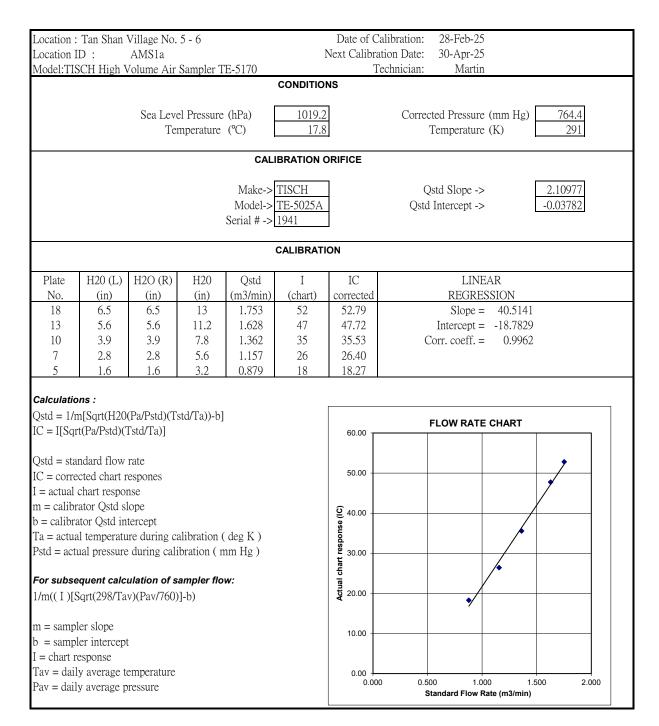
2012





Appendix E

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



Location : Oi Tat House							Date of (Calibration:	28-Feb-25					
Location I		AMS 5	120			ז	Next Calibra		20-Fe0-25 30-Apr-25					
			e Air Sa	mpler TE-5	170			Sechnician:	Martin					
		VOlulin			170			cenneran.	ividi tili					
						COND								
Sea Level Pressure (hPa) 1019.2 Corrected Pressure (mm Hg) 764												64.4		
			berature	. ,		17.8			Temperature (K)			291		
		1 0 111 p				1710	1	-		-	·	<u> </u>		
				(CAL	IBRATI	ON ORIFICI	E						
							-							
				Make->				-	std Slope ->					
				Model->				Qstd	Intercept ->		-0.03	782		
				Serial # ->	194	1	J							
						CALIBI	RATION							
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC		LINEA	R				
No.	(in)	(in)	(in)	(m3/min)	((chart)	corrected		REGRESSION					
18	6.4	6.4	12.8	1.740		53	53.81		Slope =	39.1494	4			
13	5.3	5.3	10.6	1.585		46	46.70		-	-14.8447				
10	4	4	8	1.379		38	38.58	С	orr. coeff. =	. coeff. = 0.9992				
7	2.6	2.6	5.2	1.115		29	29.44							
5	1.4	1.4	2.8	0.823		17	17.26							
								FLOW	RATE CHART			2.10977 -0.03782		
Calculatio			· 1)/TT (1	۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲		60.0	⁰⁰ T					ר		
Qstd = 1/n				/1a))-bj										
IC = I[Sqr	t(Pa/Psiu))(1Sta/18	a)]			50.0	חו				<u> </u>			
Qstd = star	ndard flo	w rate				00.0								
Q stu = stat IC = corre			es			-								
I = actual		-				() 40.0	00					-		
m = calibr	_					ouse				·				
b = calibra			t			Actual chart resp 5.05 5.07								
Ta = actua	ıl tempera	ature dur	ing calib	oration (deg	g K	hart								
Pstd = actu	ual pressu	ire durin	g calibra	ation (mm l	Hg	ual c			X					
						20.0 Yct	00					-		
For subse	-			-					•					
1/m((I)[S	5qrt(298/J	l'av)(Pav	/760)]-b))		10.0								
	1 1													
m = sample		4												
b = sample		ept				0.0	0.000	0.500	1.000	1.500	2	_ 000		
I = chart re Tav = dail	-	tompor	oturo				0.000		Flow Rate (m3/mi					
Pav = daily		-			L									
	y average	pressur	C											

T a satism	IIa	ч. <u>То</u> ф Ша					Data of (Nalih usti sur	20 Eal 25			
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		Ĺ		IX)	271	
				C	ALII	BRATIO						
				Make->	TIS	СН		O	std Slope ->	Γ	2.10977	
				Model->				-	Intercept ->		-0.03782	
				Serial # ->	194	1						
					(CALIBR	ATION					
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC		LINEA	EAR		
No.	(in)	(in)	(in)	(m3/min)	(0	chart)	corrected	REGRESSION				
18	6.2 6.2 12.4 1.712			51	51.78	Slope = 38.7146						
13		5.4 5.4 10.8 1.599			46	46.00	Intercept = -15.1994					
10	3.7	3.7	7.4 4.8	1.327 1.072		35 27	35.53 27.41	С	Corr. coeff. = 0.9983			
7 5	2.4 1.4	2.4 1.4	4.8 2.8	0.823		27 16	27.41 16.24					
	1.1	1.1	2.0	0.025	[10	10.21					
Calculatio								FLOW	RATE CHAR	г		
Qstd = 1/r IC = I[Sqr		-		'Ta))-b]		60.0	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	-	-	+			onse				~		
	-	-		oration (deg	γ K	ds a 30.0	0					
	-		_	ation (mm	- 1	chart			•			
	-		-			Actual chart response (IC) 0.05 0.07 0.07						
	For subsequent calculation of sampler flow:											
1/m((I)[S	sqrt(298/	Tav)(Pav	r//60)]-b)								
m = samp	ler slone					10.0	0					
h = sample b = sample	-	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/n	1.500 nin)	2.000	
Pav = dail	y average	e pressur	e		Į							

Location :	Ma Ya	u Tong '	Village]	Date of C	Calibration:	28-Feb-25)		
Location I												
			e Air Sa	mpler TE-5	170				-			
						DITIO	ONS					
	Se			. ,		9.2 Corrected Pressure (mm Hg)					764.4	
		Technician: Martin CONDITIONS Sea Level Pressure (hPa) 1019.2 Corrected Pressure (mm Hg) 764.4 Temperature (°C) 17.8 Corrected Pressure (mm Hg) 764.4 291 CALIBRATION ORIFICE Make-> TISCH Qstd Slope -> 2.10977 -0.03782 Wodel-> TE-5025A Qstd Intercept -> 0.03782 -0.03782 CALIBRATION CALIBRATION Output: Description of the second										
				(ALIBRA		ORIFICE	E				
				Make->	TISCH			О	std Slope ->	,	2.10977	
						бA		-				
				Serial # ->	1941							
					CALI	IBRA	ΓΙΟΝ					
Plate				-								
<u>No.</u> 18					· · · · · · · · · · · · · · · · · · ·) C						
18								-				
10								C	-			
7										0.,,,0	,	
5												
	-	1 0/D-/D-	4 J) (T - 4 J	/TT->>> 1-1								
-				(1a))-b]		60.0	00	FLO	W RATE CH	IART		
ic – iloqi	u(r a/r siu)(1510/1	a)]									
Qstd = stat	ndard flo	w rate				50.0					>	
-			es									
	-					.						
						<u>မ</u> 40.0	00					
	-	-		1		suod						
	-		_			Se 30.0	00					
Pstd = acti	ial pressi	are durin	g calibra	ation (mm)	Hg)	chart						
For subsequent calculation of sampler flow:							00					
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)									•			
			-			10.0	00					
m = sampl	-											
b = sample		ept				•						
I = chart re	-					0.0	00 +	0.500	1.000	1.500	2.000	
Tav = daily						Standard Flow Rate (m3/min)						
Pav = daily	y average	e pressur	C									



RECALIBRATION DUE DATE:

December 16, 2025

Certificate of Calibration

			Calibration	Certificatio	on Informat	ion				
Cal. Date:	December	16, 2024	Roots	meter S/N:	438320	Ta:	°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			
			1	Data Tabula	tion	1				
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$			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	1.3590 2.831		0.9829	1.3557	1.7690			
		m=	2.09671			m=	1.31292			
	QSTD	b= r=	-0.013		QA	b= r=	-0.01157 0.99999			
				Calculatio	ns					
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta			ΔVol((Pa-Δl	P)/Pa)			
		Vstd/∆Time				Va/ATime				
			For subsequ	ent flow ra						
	Qstd=	1/m ((1/m (Pa Pstd Tstd	-))-b)	Qa=	1/m ((√∆F				
	Standard	Conditions								
Tstd						RECA	LIBRATION			
Pstd		mm Hg			LIS EDA room	mmonde	anual recalibration	n nor 1000		
ALL. colibrat		Key	n H2O)				nnual recalibrations			
		ter reading (i eter reading			40 Code of Federal Regulations Part 50					
		perature (°K)			Appendix B to Part 50, Reference Method for Determination of Suspended Particulate Matte					
		ressure (mm								
: intercept			01		the Atmosphere, 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:

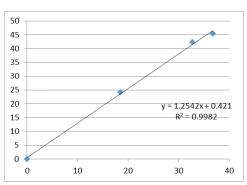
3 September 2024

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	(D_{2})	
	Constant of the owner owne	Vstd/ATime	/1300/1300/18	,,	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				

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 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

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

: 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

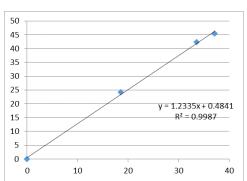
Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
3-Sep-24	2hr00mins	09:26 ~ 11:26	30.2	1006.1	24.3	2225	18.5
3-Sep-24	2hr00mins	11:37 ~ 13:37	30.2	1006.1	42.3	4033	33.6
3-Sep-24	2hr00mins	12:49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

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

: 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:

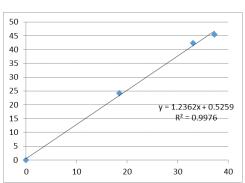
3 September 2024

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			(D_{2})		
	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					

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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 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

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: 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:

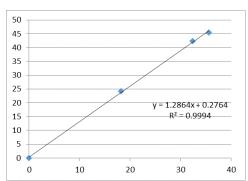
3 September 2024

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			(D_{2})	
	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				

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Village of Cleves, OH 45002

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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)

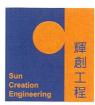
- The uncertainties are for a confidence probability of not less than 95 %.

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 Buildin	ng,			
		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

UUT Setting			Applied Value		UUT		
Range	Mode	Frequency	Time	Level	Freq.	Reading	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	
30 - 120	L _A	A	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

	UU	T 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	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

· · · · ·	0 0	,									
	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	$+1.0\pm1.6$			
						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		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	o. 411106		Pa	ge 1 of 2 Pages
Customer :	Action-Unltod Environmenta	I Services & consult	ing	
Address :	Unit A, 20/F, Gold King Industrial B	3uilding, 35-41 Tai Lin Pa	i Road, Kwai Chung, I	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	0-1100-24	

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 No	o. 411107		Pag	e 1 of 2 Pages					
Customer :	Action-Unltod Environmental	Services & consulting	3						
Address :									
Order No. :			Date of recei						
Item Testec	1								
Description	: Sound Level Calibrator								
Manufacturer			I.D.	: EQ085					
Model	: NC-73		Serial No.	: 10655561					
Test Condit	tions		*****						
Date of Test :	8-Nov-24		Supply Voltag						
Ambient Tem	perature : $(23 \pm 3)^{\circ}$ C			ge : idity : (50 ± 25) %					
Test Specif	ications			any (00 ± 20) /0					
Calibration che	ck								
	:/Procedure : F21, Z02, IEC 609	42.2017							
	1 10000010 . 1 2 1, 202, 1EC 008	42.2017.							
Test Result	S								
The results are	shown in the attached page(s).								
Main Test equip	oment used:								
Equipment No.	Description	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-ha	this Calibration Certificate only relate t wance for the equipment long term drift indling, or the capability of any other lat age resulting from the use of the equip	, variations with environme	ental changes vibrat	ion and shook during transportation					
The test equipment The test results app	used for calibration are traceable to Int bly to the above Unit-Under-Test only	ternational System of Unit	s (SI), or by referenc	e to a natural constant.					
Calibrated by	. XY	-		X					
Camprated by	Elva Chong	Арр	roved by :	Kin Mong					
This Certificate is issued b	9	Date:	8-Nov-24	Kin Wong					
Hong Kong Calibration Ltd Unit 8B 24/F Well Fung I		_ 410.	0 110V L 1						

U 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
010		(Ref: IEC 60942 Class 2 Spec.)
94.0	94.1	± 0.4 dB
II ID		

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.



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 / 測詞	式條件	
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.



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.



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可處根據ISO/IEC 17025:2017認可 進行載於認可範圍內下述測試類別中的指定實驗所活動

Environmental Testing

環境測試

 This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and
the implementation of a management system relevant to laboratory operation
(see joint IAF-ILAC-ISO Communiqué).

 此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並
實施一套與實驗所運作相關的管理體系
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHUM Wai-leung, Executive Administrator 執行幹事 沈偉良 Issue Date : 28 February 2020 簽發日期 : 二零二零年二月二十八日

Registration Number : HOKLAS 066 註冊號碼 :



Date of First Registration : 15 September 1995 首次註冊日期:一九九五年九月十五日

L001934



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; Submit proposals for remedial actions to ER with a copy to ET and 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.



Event and Action Plan for Construction Noise

Encert	Action			
Event	ET	IEC	ER	Contractor
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor 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; and Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC and ER; and Implement noise 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. 	 I. 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

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

✓	Monitoring Day
	Sunday or Public Holiday



Impact Monitoring Schedule for next Reporting Period

	<u> </u>	NOISE MONITORING	AIR QUALITY	MONITORING
	Date	(0700 – 1900)	1-HOUR TSP	24-HOUR TSP
Tue	1-Apr-25			
Wed	2-Apr-25			√
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	
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			
Fri Sat	25-Apr-25	<u> </u>		
Sat	26-Apr-25 27-Apr-25			
Mon	27-Apr-25 28-Apr-25	✓		
Tue	28-Apr-25		•	✓
Wed	30-Apr-25			
wea	30-Apr-23			

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

						27-110	JUK I			SULI DATABA	<u>GE</u>				
24-hour TS	P Monitorin	ig Data fo	r AMS1a												-
	SAMPLE	EI V	APSED TIN	/F		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	NUMBER					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g)		COLLECTED	TSP ₃
		INITIAL	FINAL	(min)			AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	(µg/m ³)
4-Mar-25			28727.96	1440	41	41	41	24.4	1010.3	1.07	1539	2.7079	2.7487	0.0408	27
10-Mar-25	21326	28727.96	28751.96	1440	41	41	41	20.2	1020.4	1.08	1562	2.7197	2.7272	0.0075	5
15-Mar-25		28751.96	28775.96	1440	41	41	41	21.2	1014.3	1.08	1553	2.7642	2.7898	0.0256	16
21-Mar-25	21295	28775.96	28799.96	1440	41	41	41	25.9	1022.7	1.07	1546	2.8294	2.9099	0.0805	52
27-Mar-25	21272	28799.96	28823.96	1440	41	41	41	25.2	1007.2	1.07	1534	2.7759	2.823	0.0471	31
24-hour TS	P Monitorin	ig Data fo	r AMS-5						•			•			
	SAMPLE	ELA	APSED TIN	/F		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	NUMBER					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
		INITIAL		(min)			AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Mar-25		16773.03			39	39	39.0	24.4	1010.3	1.59	2288	2.7141	2.7812	0.0671	29
10-Mar-25					39	39	39.0	20.4	1020.1	1.60	2310	2.7663	2.8511	0.0848	37
15-Mar-25			16845.03		39	39	39.0	21.2	1014.3	1.60	2302	2.7969	2.8801	0.0832	36
21-Mar-25			16869.03		39	39	39.0	25.9	1022.7	1.59	2294	2.7948	2.8315	0.0367	16
27-Mar-25	21274	16869.03	16893.03	1440.00	39	39	39.0	25.2	1007.2	1.58	2282	2.7885	2.8277	0.0392	17
24-hour TS	P Monitorin	ig Data fo	r AMS-6												
	SAMPLE		APSED TIN	Æ	(CHAR	Г	AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	NUMBER					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Mar-25			21864.10		42	42	42.0	24.4	1010.3	1.32	1898	2.6834	2.7313	0.0479	25
10-Mar-25			21888.10		42	42	42.0	20.2	1020.4	1.33	1915	2.7728	2.7795	0.0067	3
15-Mar-25			21912.10		42	42	42.0	21.2	1014.3	1.33	1908	2.7989	2.8362	0.0373	20
21-Mar-25	21273	21912.10	21936.10	1440.00	42	42	42.0	25.9	1022.7	1.32	1903	2.7982	2.8613	0.0631	33
27-Mar-25	21275	21936.10	21960.10	1440.00	42	42	42.0	25.2	1007.2	1.32	1895	2.8050	2.8504	0.0454	24
24-hour TS	P Monitorin	ig Data fo	r AMS-7												
			APSED TIN	Æ.	(CHAR	Г	AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	SAMPLE NUMBER				R	EADIN	IG	TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
		INITIAL	FINAL	(min)			AVG	(°C)	(hPa)	(m^3/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Mar-25		16643.32			41	41	41.0	24.4	1010.3	0.91	1307	2.7180	2.7540	0.0360	28
10-Mar-25			16691.32		41	41	41.0	20.4	1020.3	0.92	1325	2.7762	2.7975	0.0213	16
15-Mar-25			16715.32		41	41	41.0	21.2	1014.3	0.92	1318	2.8017	2.8470	0.0453	34
21-Mar-25			16739.32		41	41	41.0	25.9	1022.7	0.91	1313	2.8280	2.8788	0.0508	39
27-Mar-25	21276	16739.32	16763.32	1440.00	41	41	41.0	25.2	1007.2	0.90	1303	2.7871	2.8217	0.0346	27



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Measu	ise Measurement Results (dB) of NMS1																				
	Start	1s	t Leq (5	(min)	2nd	Leq (5)	min)	3rd	Leq (51	nin)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (5)	min)	Leq30	Limit
Data	Time	Leq,	L10,	L90,	Leq,	,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,		L90,	Leq,	L10,	L90,	min,	Level
		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)
7-Mar-25	9:28	69.4	74.1	56.3	69.2	73.8	54.9	70.8	74.9	56.1	70.1	74.5	54.8	69.9	75.0	57.1	71.2	76.2	57.2	70	70
13-Mar-25	9:30	64.9	69.6	57.9	66.5	71.1	56.9	68.7	72.2	56.9	67.9	71.9	56.5	68.1	72.6	58.0	69.3	73.8	58.8	68	70
19-Mar-25	9:29	69.5	74.1	58.2	70.4	74.9	57.8	71.6	75.1	58.4	68.3	73.1	57.5	69.6	74.2	57.9	70.2	74.9	57.1	70	70
25-Mar-25	9:00	62.2	66.2	54.8	60.5	64.0	54.2	58.7	61.8	54.2	67.5	70.8	61.9	66.6	70.2	57.5	71.9	72.5	66.0	67	70
31-Mar-25	9:25	66.3	71.5	54.5	67.8	72.5	57.5	68.6	73.5	58.0	67.3	72.0	59.5	68.7	73.5	59.0	66.4	71.0	60.5	68	70

Noise Measu	Noise Measurement Results (dB) of NMS2																				
	Start	1s	t Leq (5	imin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (5r	nin)	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)
7-Mar-25	11:28	63.6	65.5	56.1	62.3	64.3	56.0	62.6	65.7	56.0	62.5	66.0	54.6	62.9	66.4	57.8	63.5	66.1	58.0	63	70
13-Mar-25	13:10	61.9	65.1	59.0	61.5	64.9	58.5	60.8	64.4	58.5	64.7	66.3	57.8	65.9	69.1	58.0	62.2	64.8	59.5	63	70
19-Mar-25	14:05	60.5	62.7	55.3	59.5	61.2	54.6	58.9	60.9	54.8	56.7	57.5	54.2	56.4	58.1	54.4	57.0	59.8	54.7	58	70
25-Mar-25	13:10	66.4	69.7	56.7	62.9	57.2	53.0	64.9	68.2	57.4	63.1	66.3	55.1	61.3	65.7	54.8	65.1	68.2	56.4	64	70
31-Mar-25	14:05	64.7	67.5	57.0	65.4	68.5	57.5	64.1	67.0	56.5	63.8	66.5	56.0	61.7	65.5	55.5	62.3	67.0	57.5	64	70

Noise Meas	uremei	nt Resul	lts (dB)	of NMS	S3																
	Start	art 1st Leq (5min) 2nd Leq (5min)						3rd	Leq (5	min)	4th	Leq (5	min)	5th	Leq (51	min)	6th	Leq (5	nin)	Log20min	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)
7-Mar-25	11:15	67.1	66.1	58.2	59.7	62.7	56.4	59.7	60.0	56.5	59.7	62.5	56.2	62.3	63.7	57.2	59.1	61.3	56.5	62	75
13-Mar-25	10:10	62.5	65.0	56.5	61.5	63.5	57.0	62.7	64.5	57.0	62.9	65.5	57.5	61.9	64.3	57.0	62.2	64.8	57.5	62	75
19-Mar-25	10:05	64.8	66.0	57.5	64.1	65.5	58.5	62.7	66.5	59.5	63.3	66.5	60.0	62.7	65.0	59.5	64.4	67.5	59.0	64	75
25-Mar-25	15:30	57.9	60.2	53.9	58.6	61.3	54.3	58.9	61.6	53.7	55.6	58.1	52.6	57.2	59.9	53.6	62.6	60.3	63.7	59	75
31-Mar-25	10:15	65.6	68.0	60.2	63.7	65.8	60.2	64.5	67.5	60.6	64.1	66.9	59.6	63.1	65.5	60.5	63.8	67.4	58.7	64	75



Noise Meas	Noise Measurement Results (dB) of NMS4a																				
	Start	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (51	min)	4th Leq (5min)			5th Leq (5min)			6th	Leq (5)	min)	Leq30m	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	in,	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)
7-Mar-25	10:45	63.6	65.6	60.4	64.4	65.8	62.0	63.6	65.1	60.9	63.2	64.9	60.7	63.5	64.6	61.1	63.0	65.5	60.1	64	75
13-Mar-25	10:00	65.5	68.6	63.2	69.7	72.2	64.4	67.5	71.0	64.0	67.9	72.5	64.0	65.5	68.1	63.8	66.5	69.8	64.0	67	75
19-Mar-25	10:52	63.9	67.5	58.7	63.5	66.9	59.6	64.0	67.0	60.2	63.1	65.5	59.2	61.8	64.0	59.1	63.2	65.7	60.3	63	75
25-Mar-25	10:15	72.7	78.1	55.0	60.8	62.5	58.6	64.2	64.1	58.4	61.7	63.2	59.8	63.4	63.2	59.2	61.5	63.0	59.5	67	75
31-Mar-25	10:30	66.7	69.0	65.5	64.4	67.0	63.5	63.8	65.5	62.5	66.6	68.0	63.5	65.1	67.5	62.0	64.9	66.5	64.0	65	75

Noise Measu	uremen	t Result	ts (dB) o	of NMS	5																
	Start	1st	Leq (51	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	nin)	5th	Leq (5r	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)
7-Mar-25	13:12	62.5	64.2	60.2	62.1	63.7	60.0	61.6	62.9	59.6	62.2	63.1	60.1	62.6	65.8	59.9	63.9	66.6	60.2	63	75
13-Mar-25	13:30	62.9	65.0	60.5	63.8	66.1	61.0	63.2	66.0	61.0	63.8	66.8	70.5	64.8	67.5	61.5	64.0	67.5	62.0	64	75
19-Mar-25	13:14	62.5	63.9	60.2	62.9	64.6	60.5	63.2	64.9	61.1	61.9	63.4	60.9	63.1	64.5	61.0	62.2	63.5	60.8	63	75
25-Mar-25	11:15	60.1	62.5	57.1	61.9	64.0	58.7	63.2	65.3	59.2	63.7	66.4	58.6	64.2	66.6	60.7	64.8	66.8	60.4	63	75
31-Mar-25	13:25	66.2	68.0	64.5	67.7	69.5	65.0	65.4	67.5	63.0	64.6	67.0	63.5	66.1	68.5	64.0	65.2	68.0	63.5	66	75

Noise Measu	uremei	nt Resu	lts (dB)) of NM	S6																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	min)	Lag20min	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(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)
7-Mar-25	9:40	67.9	70.3	63.3	66.2	69.3	54.0	62.5	64.9	58.9	68.7	71.6	61.1	69.6	71.7	65.6	69.5	71.6	65.5	68	75
13-Mar-25	9:50	63.8	65.9	60.0	63.0	65.0	59.5	65.1	67.5	61.3	65.7	67.8	61.6	64.8	66.3	61.0	65.0	68.7	60.3	65	75
19-Mar-25	10:45	68.4	70.5	65.5	69.9	71.5	66.5	65.8	68.5	60.5	67.2	69.5	64.5	67.9	70.0	65.0	69.7	72.5	63.5	68	75
25-Mar-25	14:40	66.0	68.2	62.5	65.3	66.4	63.4	67.3	68.4	64.0	67.4	68.4	54.2	68.2	63.4	66.9	68.7	68.7	62.6	67	75
31-Mar-25	9:40	65.3	67.9	61.2	67.8	70.0	63.1	67.5	69.5	65.0	67.8	69.9	64.8	65.8	67.9	62.9	66.3	68.7	62.8	67	75

Noise Measu	ıremen	t Resul	ts (dB)	of NMS	7																
	Start	1st]	Leq (5n	1in)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5	nin)	Log20min	Limit
	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	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)	uD(A)	dB(A)
7-Mar-25	9:00	66.2	69.3	53.9	62.4	64.8	58.9	68.6	71.6	61.1	69.5	71.7	65.6	69.5	71.7	65.5	67.9	70.3	63.3	68	75
13-Mar-25	11:30	65.3	67.9	59.5	63.2	66.4	59.5	64.4	67.8	59.9	64.3	66.3	60.0	64.5	65.0	59.6	65.2	67.8	60.5	65	75
19-Mar-25	11:25	63.7	67.5	57.5	64.2	68.0	55.5	65.6	69.0	59.5	63.1	65.5	57.4	60.3	63.5	55.5	59.7	62.0	56.0	63	75
25-Mar-25	14:00	65.1	66.2	56.4	61.2	65.3	55.1	62.4	64.1	57.6	63.3	65.1	58.0	62.1	64.9	57.1	61.8	62.9	56.4	63	75
31-Mar-25	8:50	60.7	62.4	58.0	60.2	62.3	57.4	61.2	62.8	58.6	61.6	64.3	57.2	61.6	64.0	58.1	61.6	64.1	57.7	61	75

Noise Measu	iremen	t Resul	ts (dB)	of NMS	8																
	Start	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (5r	nin)	Log20min	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(Ā)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(Ā)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	ub(A)	dB(A)
7-Mar-25	13:20	60.6	65.2	50.8	59.3	71.1	57.8	67.3	70.6	61.4	66.5	71.1	55.3	64.9	69.0	53.9	61.7	71.5	51.9	64	75
13-Mar-25	15:55	62.4	65.3	56.1	64.3	67.8	57.9	65.9	67.4	57.5	65.1	67.4	58.0	64.8	66.4	58.0	64.0	66.0	57.5	65	75
19-Mar-25	15:50	64.2	67.0	56.5	63.4	68.5	55.0	62.1	65.5	55.5	63.6	66.5	55.5	64.1	67.5	54.0	64.4	68.5	54.5	64	75
25-Mar-25	16:10	60.4	63.5	56.4	67.7	71.1	63.5	67.0	70.7	54.4	66.5	71.1	55.3	64.9	69.0	53.9	61.7	65.4	54.3	65	75
31-Mar-25	11:10	70.0	73.9	60.3	66.6	71.1	57.8	67.0	64.8	53.1	61.1	69.0	53.6	59.6	64.7	65.2	68.6	72.0	62.7	67	75

NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measu	ıremer	1t Resul	lts (dB)	of CN3																	
	Start	1st	Leq (51	min)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date	Start Time	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)	L10, dB(A)	L90, dB(A)	Leq, dB(A)		L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)	Level dB(A)
7-Mar-25	10:09	56.1	59.0	51.9	57.6	62.6	52.7	58.6	62.2	53.5	58.6	62.3	51.8	60.0	63.5	55.4	60.3	63.4	53.4	59	75
13-Mar-25	10:00	65.9	68.0	57.2	64.8	66.9	57.0	62.8	65.6	57.0	65.8	68.5	57.5	61.6	63.2	58.0	63.2	66.0	58.0	64	75
19-Mar-25	10:08	64.6	66.5	61.5	65.5	67.8	61.2	67.1	68.1	63.3	64.9	66.2	63.1	64.3	65.9	62.4	67.6	68.8	62.9	66	75
25-Mar-25	9:40	62.2	66.2	54.8	60.5	64.0	54.2	58.7	61.8	54.2	59.1	61.5	53.0	60.2	63.6	55.5	58.9	62.2	54.4	60	75
31-Mar-25	10:15	65.7	67.0	58.5	63.3	65.5	58.0	64.8	67.5	57.5	62.7	65.5	56.0	64.4	67.5	56.5	63.1	65.5	57.0	64	75

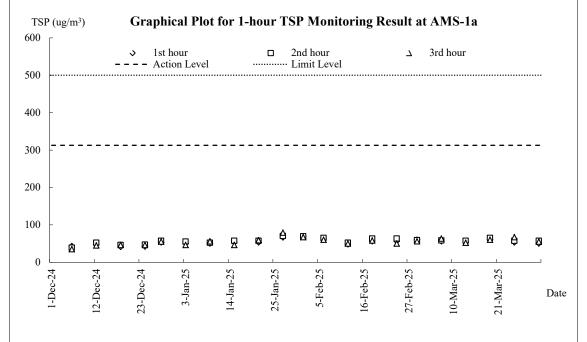


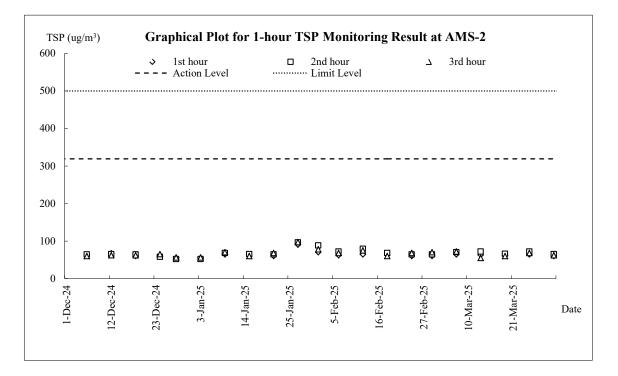
Appendix I

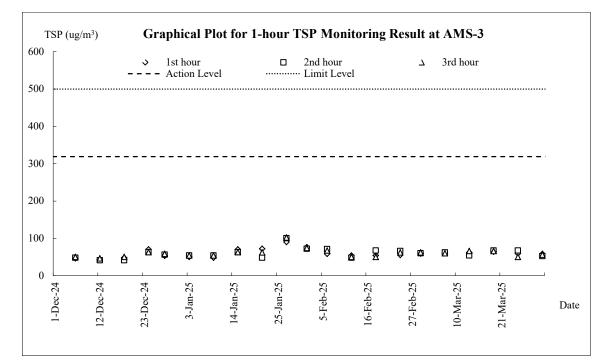
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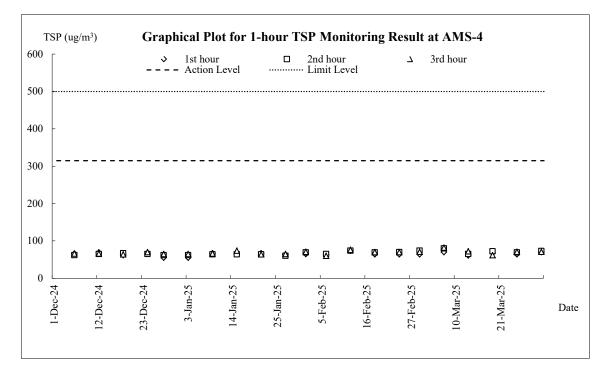


Air Quality – 1-hour TSP

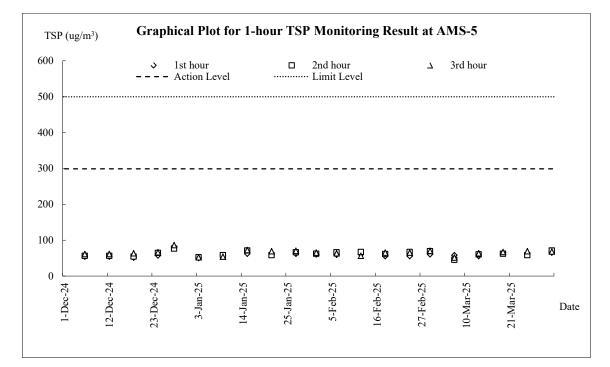


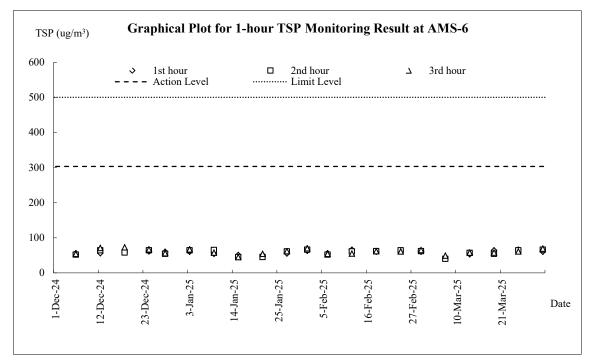






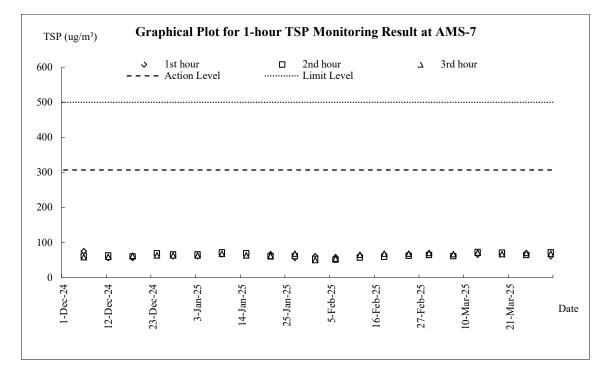






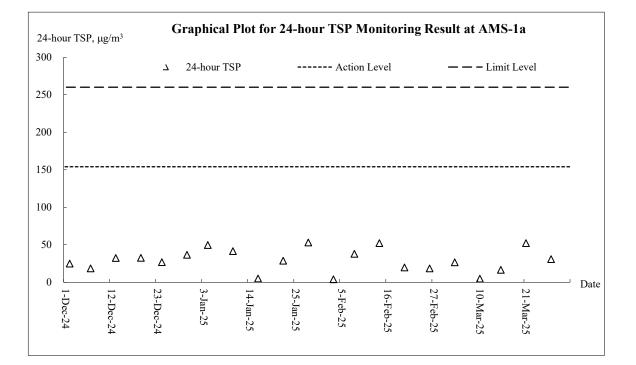
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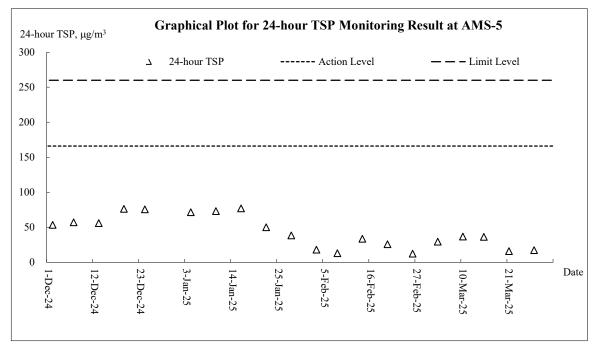




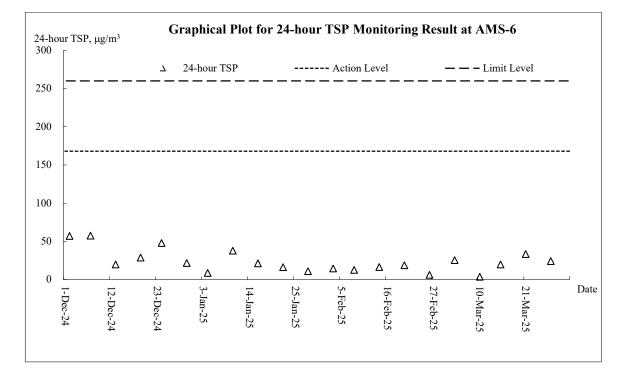


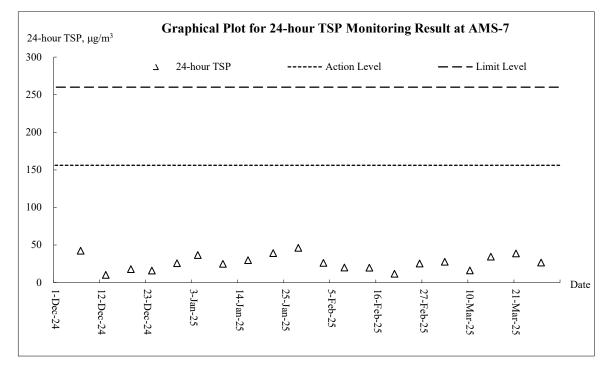
Air Quality – 24-hour TSP





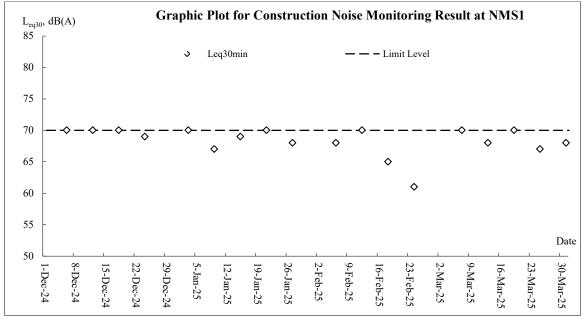


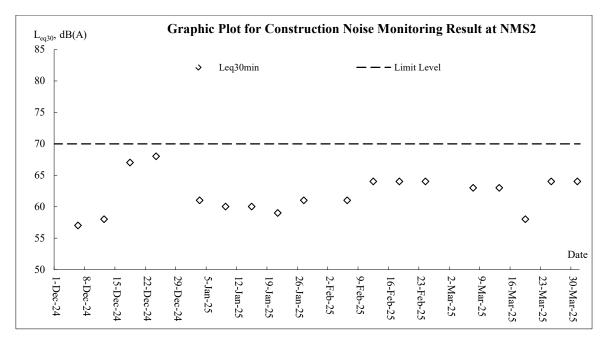


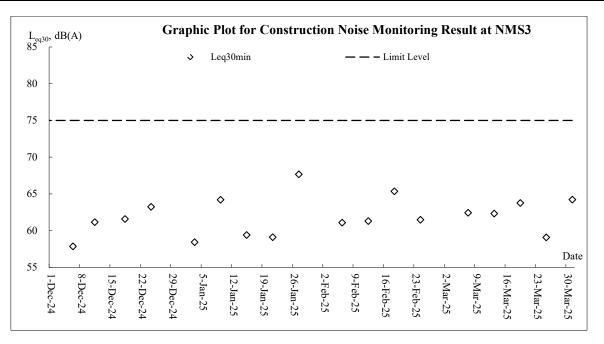




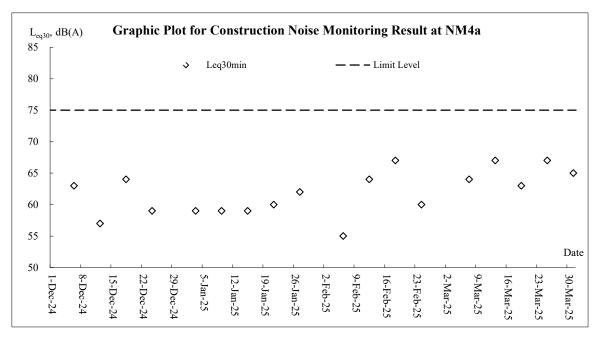
Noise



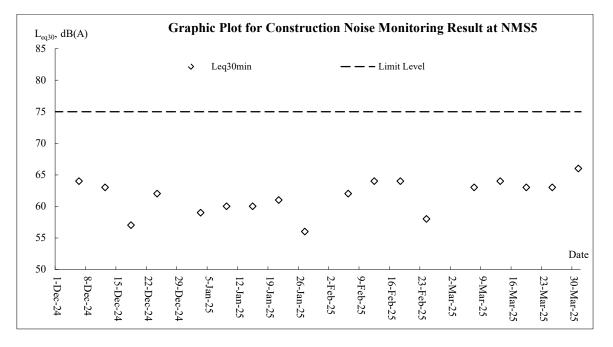


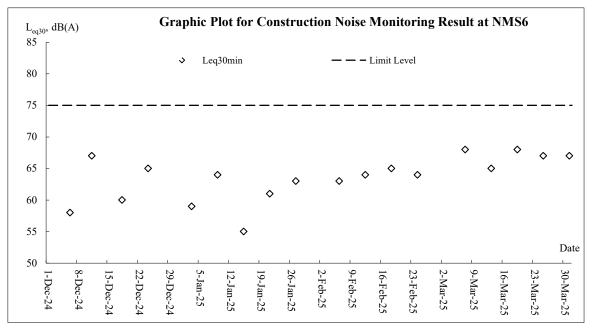


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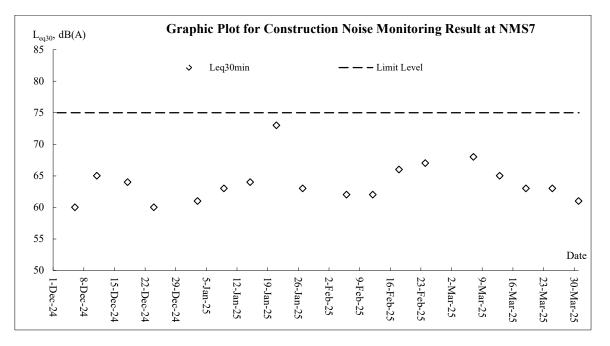


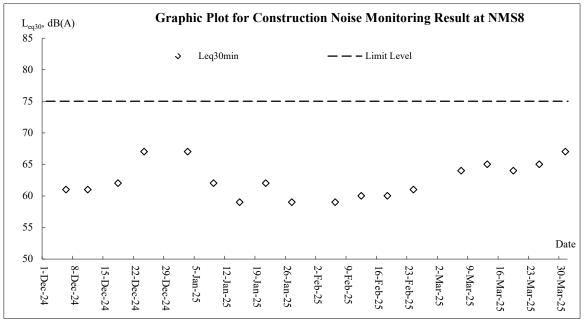






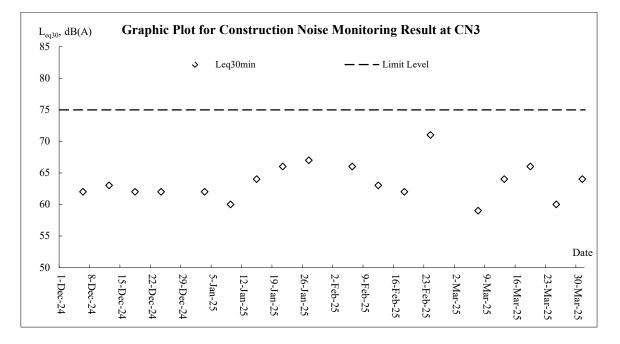






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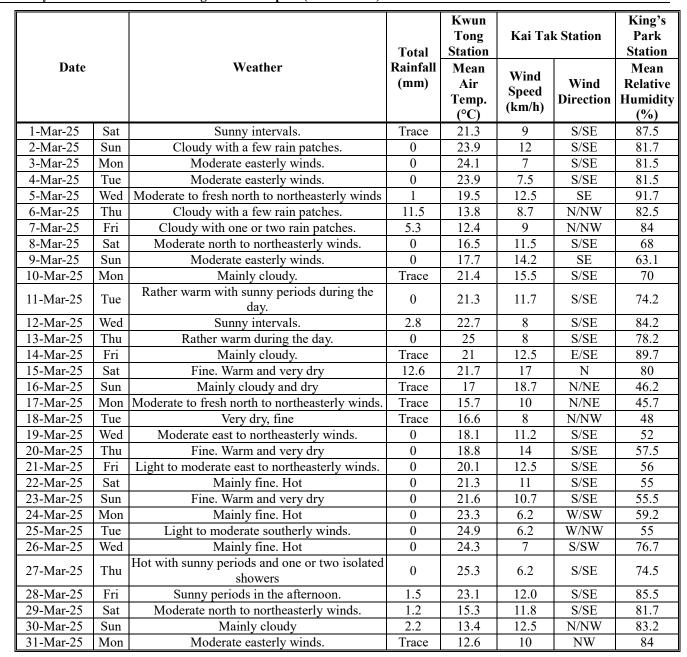






Appendix J

Meteorological Data



AUES



Appendix K

Waste Flow Table

Contract No.: ED/2020/02

Monthly Summary Waste Flow Table for 2025

	Actua	l Quantities o	of Inert C&D	Materials Ge	enerated Mor	nthly	Actual	Quantities of	C&D Wastes	s Generated	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											
May											
June											
July											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	6.389	0.000	0.000	0.000	6.389	0.000	0.000	0.000	0.000	0.000	0.235

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

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EM&A		Objectives of the Recommended	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	Contract 5
	Dust Impact (Contraction 1								
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	@	@	@	⁽ e)	@



		Objectives of the				Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main	Who to implement the	Location of the measure					
		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 								
	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,								



EM&A		Objectives of the Recommended	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
	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)			•		•	•	
S5.6.9	 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 construction activities. 	Control construction ion airborne noise	Contractor	All construction sites where practicable	@	V	V	@	@
S5.6.11 to S5.6.13	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
S5.6.14	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 S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main	Who to implement the measures?	Location of the measure	Contract	Contract	Contract	Contract	Contract
		Concern to Address	meusurest		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 (Con		1	1	ſ		T		-
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	@	@	@	[®]	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	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			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 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 <i>ProPECC PN 1/94</i>. 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 	Concern to Address				2	3	4	5
	 and removed a reast of a weekly basis to chance 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. 								



	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to	Location of the measure	Implementation Status					
EM&A Ref.			implement the measures?		Contract 1	Contract 2	Contract 3	Contract 4	Contract 5	
	 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. 				V	V	N	V	V	
6.6.7	 Sewage from Workforce 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. 	Handling of site sewage	Contractor	All construction sites	V	V	V	V	V	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to		Implementation Status					
			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 Ref.	Recommended Mitigation Measures discharged into the foul sewers.	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the	Location of the	Implementation Status					
			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)				1	1			1
\$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 	Minimize generation construction	waste during	Contractor	All construction sites	V	@	V	@	V
	 regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 									



		Objectives of the	who to			Imple	ementation	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	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					
S8.5.3	 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	Storage of Waste 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	@	@

		Objectives of the				Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main	Who to implement the	Location of the measure					
Kti.		Concern to Address	measures?	incasure	Contract 1	Contract 2	Contract 3	Contract 4	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. 								
\$8.5.8	 <u>Excavated and C&D Material</u> <u>Wherever practicable, C&D materials should be</u> 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
\$8.5.15	<u>Contaminated Soil</u> 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	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the		Imple	ementation S	Status	
Ref.		Measures & Main Concern to Address	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> <u>General refuse should be stored in enclosed bins</u> 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					
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	X 71			Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main	Who to implement the	Location of the measure					
		Concern to Address	measures?	meusure	Contract 1	Contract 2	Contract 3	4	Contract 5
.10.7.10	Construction phase in situ mitigation measures to	Minimize impacts on	Contractor	All construction	V	N/A	V	V	N/A
	minimize impacts on hydrological condition and water	Hydrological		sites					
	quality of hillside watercourses include:	condition and water							
	• Temporary sewerage and drainage will be designed	quality of hillside							
	and installed to collect wastewater and prevent it from entering nearby watercourses;	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 								
	• where appropriate, earth-ounding 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								



		Objectives of the	Who to			Imple	ementation	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	Contract 5
S.10.7.11	 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. Implement an emergency contingency plan during the construction phase and the plan will include, but not be limited to, the following: 	Minimize impacts on Hydrological condition and water	Contractor	All construction sites	N/A	N/A	N/A	N/A	N/A
	 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. 	quality of hillside watercourses.							
	Landscape and visual (Con	traction Phase)							
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

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EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the		Imple	ementation S	Status	
Ref.		Measures & Main Concern to Address	measures?	measure	Contract	Contract	Contract	Contract	Contract 5
S11.14.23, Table 11.9, CM3 [4]	Control of operation night -time glare with well-planned lighting operation system to minimize potential glare impact to adjacent VSRs	Minimize glare impact to adjacent VSRs	Contractor/ CEDD	The whole project area where applicable	V	V	@	V	N/A
S11.14.23, Table 11.9, CM [4]	Erection of decorative screen hoarding.	Minimize visual impact	Contractor/ CEDD	The whole project area where applicable	N/A	N/A	N/A	N/A	N/A
S11.14.23, Table 11.9, CM5 [2]	Minimise disturbance and limitation of run-off – temporary structures and construction works should be planned with care to minimize disturbance to adjacent landscape, vegetation, natural stream habitats.	Minimize visual impact	Contractor/ CEDD	The whole project area where applicable	V	V	V	V	N/A

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		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
	2	0
April 2018 May 2018		0
May 2018 June 2018		0
July 2018	0	0
August 2018	1	0
September 2018		0
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 12021	1	0
April 2021	1	0
May 2021	0	0
June 2021	1	0
July 2021	1	0
August 2021	0	0
September 2021	2	0
October 2021	0	0
November 2021	0	0
December 2021	0	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
	1	0
January 2025		0
February 2025	1	
March 2025	0	0
Overall Total	91	0



Appendix M2

Complaint Log

Lo ref	Complai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
1	23-Mar-1 7	8-Jun-17	On Tat Estate		Construction noise	SPRO hotline	NA	House reported that some night works with noise and	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		TCS00864/ 16/300/F00 87
2	28-Jul-17	29 Jul 17	Tat House (賢達樓), On		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.	by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 10 am on	by IEC on 9 Aug 2017	TCS00864/ 16/300/F00 60
3	29-Aug-1 7	29-Aug-1 7	Shing Tat House 24/F		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		TCS00864/ 16/300/F00 81



Log ref.	Compiai	Docoivo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
4	21-Jun-1 7		Tat Yan House, Po Tat Estate		a trut	EPD		day time construciton noise	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	$/U_{-}/11\sigma_{-}$	Tat Yan House, Po Tat Estate	t of Po Tot	Dust & Construction noise		EPD (ref. N08/RE/ 0001942 8-17)	Day time construction noise of breakers (8AM to 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	29-Aug-1 7	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	(ref.N08/ RE/0002	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.	Compiai		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 Tot 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 House		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			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
10	21-Sep-1 7	13-Oct-1 7	Ping Estate Sau Nga House and	Residen t of Sau Mau Ping Estate	Construction noise	EPD	EPD (ref.N08/ RE/0003 1074-17)	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	1 - 1 - 1	Chun Tat House, On Tat Estate	Residen t of On Tat Estate	Construction noise	EPD	(ref.N08/ RE/0002	He requested to shift the operation of the breakers to	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,		TCS00864/ 16/300/F01 06
12	3-Oct-17	13-Oct-1 7	Chun Tat House, On Tat Estate		Construction noise	EPD	EPD (ref. N08/RE/ 0003240 7-17)	Day time construction noise, the complainant	there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to 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.	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 06
13	25-Oct-1 7	26-Oct-1 7	Tat Kwai House, Po Tat Estate	Residen t of Po Tat	Dust	EPD		投訴安達臣道地盤的泥車 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			Compl ainant	Complaint nature	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		House, On	Residen t of On Tat Estate	Noise	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 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 30 Nov 2017	TCS00864/ 16/300/F01 09
15	13-Nov-1 7	14-Nov-1 7	House, On	Lam	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 過發出極大的聲息 	minimise the nuisance. For the	no comment by IEC on 24 Nov 2017	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	Residen t of Po 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 by IEC on 13 Dec 2017	TCS00864/ 16/300/F01 10
17	25-Aug-1 7	7	Sau Yee House, Sau Mau Ping Estate	Residen t of Sau Mau Ping Estate	Constantion	EPD	(rel.N08/	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,投訴安達臣	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

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 (March 2025)



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		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 的轟轟聲巨響,最近一次 就是今早(28/12)凌晨五時 多再次聽到石礦場傳來聲 響,將 Thomas 先生吵醒,	complainant's flat in the monitoring of 17 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	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 Noise	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		Shing Tat House of On Tat Estate	Residen t of Shing Tat House (referre d by Mr. Hsu Yau Wai)	Construction Noise	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.	Date of Complai nt	Receive		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	Residen t of Shing Tat House	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			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 nearby	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	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b



Log ref.	Date of Complai nt	Docoivo		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		Junction of Hiu Kwong Street and Hiu Ming Street	name of	Construction Noise	EPD		This case is considered a Programme.	s an enquiry and no investigation is req	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。	As advised by CWSTVJV and confirmed by RE/AECOM, there were no construction activities carried out after 19:00 and concreting was completed before 19:00. It is concluded that the retracting process is not a general construction work using Powered Mechanical Equipment and complaint was an isolated case due to misunderstanding of the site operation. To prevent similar incidents in future, CWSTVJV has recommended several mitigation measures.		TCS00864/ 16/300/F01 74b
29	25-Jun-1 8	19-Jul-18	Connectively E8 under	Kwun Tong DC membe r Ms.	Waste Management	CEDD	NA	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	by IEC on	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 Noise	1823 Hotline	NA	吳先生於 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 目	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.	no comment by IEC on 7 Sep 2018	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。	According to the site diary which countersigned by RE, there was no concreting work carried out after 18:00 and the construction activities conducted during restricted hours with valid CNP were completed at 23:00. It is considered that the complaint was not valid to the Project. Nevertheless, CWSTVJV was reminded that in case of any work activities need to be carried out during restricted hours, CWSTVJV should strictly follow the requirements specified in the valid CNP.	no	TCS00864/ 16/300/F01 97a



Log ref.	Date of Complai nt	Receive	-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
32	6-Sep-18	7-Sep-18	Tsui Yeung House		Construction Noise	Verbal	NA	Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours.	auring slope construction work and the	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.	no comment by IEC on 23 Nov 2018	TCS00864/ 16/300/F02 09a
34	12-Nov-1 8	13-Nov-1 8	Anderson Road Quarry Site		Construction Noise	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.	Compiai			Compl ainant	Complaint nature	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	Anderson Road Quarry Site		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.	no comment by IEC on 10 Jan 2019	TCS00864/ 16/300/F02 30a
38	19-Dec-1 8	27-Dec-1 8	Anderson Road Quarry Site		Construction noise	1823	2-494807 4127	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	January 2019 the status of implemented mitigation measures provided by CWSTVJV was inspected. It was 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 carried out within the non-restricted hours, it is considered that the works under the	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



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								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	25-Feb-1 9	Anderson Road Quarry Site	Undiscl osed	noise	EPD	NA	Hong House complained that the noise from the 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	Receive	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
43	21-Feb-1 9	26-Feb-1 0	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	works area and breaker head wrapped with acoustic material were implemented continually. Alterative quiet work method was adopted such as drilling the hard rock before the breaking work to reduce the breaking duration. In our investigation, CWSTVIW had approved the poise	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 52a
44	1-Mar-19	26-Feb-1 9	E3 of Contract 2	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.	2019. Mr. Cheng was satisfied with the rapid response from CEDD and the engineering team. In our investigation,	no comment by IEC on 6 May 2019	TCS00864/ 16/300/F02 64



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45	16-Jun-1 9	18-Jun-1 9	Road Duarry	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 Powered Mechanical Equipment (PME) it	no comment by IEC on 21 August 2019	TCS00864/ 16/300/F03 01a
46	12-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.	was mostly rainy day throughout June and	12 August 2019	TCS00864/ 16/300/F02 92b



Log ref.	Date of Complai nt		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)	Mr. Ng	Noise	1823	NA	A public complaint was 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 causing nuisance to the nearby residents.	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	no comment by IEC on 13 Nov 2019	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		Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
52	11-Nov-1 9	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	November 2019, the project hotline received a call from the same complainant reported on the poise nuisance pear On	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. However, in response to the complaint, the 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		Tunnel work of Anderson Road Quarry Site (the Underpass)	Residen	Noise	EPD	NA	エエラ·嗜目间 中 以 告 ¹ 取 近 又 有 嘈 音 出 現 , 仲 係 重 低 音 , 希 望 能 加 裝 隔 音 設 備 , 工 程 不 知 何 時 將 嘈 音 減 至 最 低 。 1. A public complaint was received by EPD on 5 March 2020 regarding the construction	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic 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.	no comment by IEC on 1 Apr 2020	TCS00864/ 16/300/F03 57a



Log ref.	Date of Complai nt	Receive	Complaint Location		Complaint nature	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	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 mentioned that there were	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 2020	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	dust quality mitigation measures conducted by CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection, no outflow 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	TCS00864/ 16/300/F03 60a
56	17-Mar-2 0	19-Mar-2	Anderson Road Quarry Site	Residen t of Yan Tat House	Noise	Project hotline	NA	許有為區議員接獲安達邨 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	public. However, to eliminate the inconvenience caused to the nearby residents. CW-CMGCIV was advised to	no comment by IEC on 11 May 2020	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.	Date of Complai nt		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	12-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		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	TCS00864/ 16/300/F03 91a
59#	23-Jul-20	24-Jul-20	Anderson Road Quarry Site near On Tat Estate		Noise	EPD	NA	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	TCS00864/ 16/300/F04 01



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	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)	Undisci	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	Noise	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		Complaint Location	Compl ainant	-	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		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		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 by IEC on 19 July 2021	TCS00864/ 16/300/F04 58a

			from the housing sites near
			the Tai Sheung Tok slope)
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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.		no comment by IEC on 22 April 2021	TCS00864/ 16/300/F04 59
67	11-Jun-2 1		Anderson	Residen t of Chi Tat House, On Tai Estate		EPD	EPD Ref.: 13208-21	Site. The complainant	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	no comment	TCS00864/ 16/300/F04 78a



Log ref.	Date of Complai nt	Dogoiyo		Compl ainant	Complaint nature	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	23-Jul-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.	by IEC on	TCS00864/ 16/300/F04 85b
69	14&16/S ep/21	15-Sep- 21	Anderson Road Quarry Site	DSD	Water Quality	EPD	NA		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			Compl ainant	Complaint nature	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	30/May/2 022	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	about muddy water	Heavy rain led to large amount of storm	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	7, 8, 9/J un/2022	Anderson Road Quarry Site		Water Quality	DSD		Ping River this morning at the upstream near junction of Kai Lim Road and Tsui Ping Road. The situation has persisted over 50 mins.			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		Complaint nature	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	which deteriorated the water quality in the 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

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								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	Sent to EPD on 3 November 2022	TCS00864/ 16/300/F59 6



LOG	Date of Complai nt	Docoivo	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	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		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ret	Date of Complaint
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).	in the morning of 4 July 2023 was caused by the ARQ contracts of Contract 1 or	Sent to 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.	Complai	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	EPD received complaint from DSD concerning muddy water was observed entering Tsui Ping River	(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	Compl ainant		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 EPD on 30 May 2024	TCS00864/1 6/300/F0702 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
									 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. (b) To minimize the generation of muddy water, the exposed areas 	Sent to EPD on 23 September 2024	TCS00864/1 6/300/F0718 a



Log ref.	Complai	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	15 and 1 8 Decem ber 2024	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.	Complai		Complaint Location	Compl ainant		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



Log 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	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