

**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 (July 2025)

PREPARED FOR
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
(CEDD)

Date Reference No. Prepared By Certified By

14 August 2025 TCS01321/23/600/R0764v1

Nicola Hon Tam Tak Wing (Environmental Consultant) (Environmental Team Leader)

Version	Date	Remarks
1	14 August 2025	First submission



#### **EXECUTIVE SUMMARY**

Monthly Environmental Monitoring & Audit Report (July 2025)

- 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 July 2025 (hereinafter 'the Reporting Period').

# ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

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

Environmental	Environmental Monitoring	Reporting Period		
Aspect	Parameters / Inspection	Number of Active Monitoring Locations	Total Occasions	
Air Quality	1-hour TSP	7	105	
Air Quality	24-hour TSP	4	20	
Construction Noise	$\begin{array}{ccc} L_{eq(30min)} & Daytime & for & Contract \\ NE/2016/01 & & \end{array}$	8	32	
Construction Noise	$ \begin{array}{cccc} L_{eq(30min)} & Daytime & for & Contract \\ NE/2017/03 & & \end{array} $	1	4	



## 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.

Environmental	Monitoring Act		Limit	Event & Action		
Aspect	Parameters	Level	Level	NOE Issued	<b>Corrective Actions</b>	
Ain Ovolity	1-hour TSP	0	0	0	NA	
Air Quality	24-hour TSP	0	0	0	NA	
Construction Noise	L <sub>eq(30min)</sub> Daytime	0	0	0	NA	

#### **ENVIRONMENTAL COMPLAINT**

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

## NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

#### REPORTING CHANGE

ES11 There is no reporting change in the Reporting Period.

#### SITE INSPECTION

ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 4* were carried out by the RE, ET and Contractor on 4, 8, 15, 24 and 29 July 2025 in which IEC joined the site inspection with SSEMC on 24 July 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.

## **CEDD Service Contract No. EDO 12/2023**

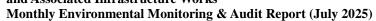
 $\label{lem:condition} \textbf{Environmental Team for Development of Anderson Road Quarry Site-Site Formation and Associated Infrastructure Works}$ 



Monthly Environmental Monitoring & Audit Report (July 2025)

# **Table of Contents**

1.		1
	1.1 PROJECT BACKGROUND	1
	1.2 REPORT STRUCTURE	2
2.	PROJECT ORGANIZATION AND CONSTRUCTION PRO	
	2.1 CONSTRUCTION CONTRACT PACKAGING	3
	2.2 PROJECT ORGANIZATION	4
	2.3 CONSTRUCTION PROGRESS	4
3.	SUMMARY OF IMPACT MONITORING REQUIREMEN	TS 6
	3.1 General	6
	3.2 MONITORING PARAMETERS	6
	3.3 MONITORING LOCATIONS	6
	3.4 MONITORING FREQUENCY AND PERIOD	8
	3.5 MONITORING EQUIPMENT	9
	3.6 MONITORING METHODOLOGY	9
	3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS	11
	3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL	12
4.	AIR QUALITY MONITORING	13
	4.1 GENERAL	13
	4.2 RESULTS OF AIR QUALITY MONITORING	13
5.	CONSTRUCTION NOISE MONITORING	15
	5.1 GENERAL	15
	5.2 Noise Monitoring Results in Reporting Month	н 15
6.	WASTE MANAGEMENT	16
	6.1 GENERAL WASTE MANAGEMENT	16
	6.2 RECORDS OF WASTE QUANTITIES	16
7.	SITE INSPECTION	17
	7.1 REQUIREMENTS	17
	7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING I	MONTH 17
8.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIA	NCE 18
	8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROS	SECUTION 18
9.	IMPLEMENTATION STATUS OF MITIGATION MEASU	RES 19
	9.1 GENERAL REQUIREMENTS	19
	9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COM	IING MONTH 19
	9.3 KEY ISSUES FOR THE COMING MONTH	20
10.	O. CONCLUSIONS AND RECOMMENDATIONS	21
	10.1 CONCLUSIONS	21
	10.2 RECOMMENDATIONS	21





# **LIST OF TABLES**

TABLE 2-1	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 4
TABLE 3-1	SUMMARY OF EM&A REQUIREMENTS
TABLE 3-2	IMPACT MONITORING STATIONS - AIR QUALITY
TABLE 3-3	IMPACT MONITORING STATIONS - CONSTRUCTION NOISE
TABLE 3-4	ADDITIONAL IMPACT MONITORING STATIONS – CONSTRUCTION NOISE
TABLE 3-5	AIR QUALITY MONITORING EQUIPMENT
TABLE 3-6	CONSTRUCTION NOISE MONITORING EQUIPMENT
TABLE 3-7	ACTION AND LIMIT LEVELS FOR AIR QUALITY MONITORING
TABLE 3-8	ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE
TABLE 4-1	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-1)
TABLE 4-2	SUMMARY OF 1-HOUR TSP MONITORING RESULTS (AMS-2)
TABLE 4-3	SUMMARY OF 1-HOUR TSP MONITORING RESULTS (AMS-3)
TABLE 4-4	SUMMARY OF 1-HOUR TSP MONITORING RESULTS (AMS-4)
TABLE 4-5	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-5)
TABLE 4-6	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-6)
TABLE 4-7	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-7)
TABLE 5-1	SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS
TABLE 5-2	SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS
TABLE 6-1	SUMMARY OF QUANTITIES OF INERT C&D MATERIALS
TABLE 6-2	SUMMARY OF QUANTITIES OF C&D WASTES
TABLE 7-1	SITE OBSERVATIONS OF CONTRACT 4
TABLE 8-1	STATISTICAL SUMMARY OF ENVIRONMENTAL COMPLAINTS
TABLE 8-2	STATISTICAL SUMMARY OF ENVIRONMENTAL SUMMONS
TABLE 8-3	STATISTICAL SUMMARY OF ENVIRONMENTAL PROSECUTION
TABLE 9-1	Environmental Mitigation Measures

# LIST OF APPENDICES

LIST OF ATTE	ENDICES
APPENDIX A	LAYOUT PLAN OF THE PROJECT
APPENDIX B	PROJECT ORGANIZATION STRUCTURE
APPENDIX C	THREE-MONTHS ROLLING CONSTRUCTION PROGRAMME
APPENDIX D	MONITORING LOCATIONS FOR IMPACT MONITORING
APPENDIX E	CALIBRATION CERTIFICATE OF MONITORING EQUIPMENT AND HOKLAS-ACCREDITATION CERTIFICATE OF THE TESTING LABORATORY
APPENDIX F	EVENT AND ACTION PLAN
APPENDIX G	IMPACT MONITORING SCHEDULE
APPENDIX H	DATABASE OF MONITORING RESULT
APPENDIX I	GRAPHICAL PLOTS FOR MONITORING RESULT
APPENDIX J	METEOROLOGICAL DATA
APPENDIX K	WASTE FLOW TABLE
APPENDIX L	IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES
APPENDIX M	COMPLAINT LOG
APPENDIX N	IMPLEMENTATION STATUS FOR WATER QUALITY MITIGATION MEASURES





## 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	<b>Commencement date</b>	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 July 2025 (hereinafter 'the Reporting Period').

# 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 (July 2025)

# 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

#### **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 (July 2025)

- Construction of Footpath at Portion 9
- Watermain works at Portion 13b
- Planting works at Portion 2a, 2v, 6, 8 and 12
- Scaffolding erection works for the buildings at Portion 2a
- 2.3.2 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 3, 4 and 5 are presented in *Tables 2-1*.

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

		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				
	<ul><li>Discharge</li></ul>				
	License				



# 3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

#### 3.1 GENERAL

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

#### 3.2 MONITORING PARAMETERS

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

Table 3-1 Summary of EM&A Requirements

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

### 3.3 MONITORING LOCATIONS

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

**Table 3-2 Impact Monitoring Stations – Air Quality** 

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



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 <sup>nd</sup> floor of Village House Anderson Road No. 1 facing the project site	Active

Note 1: The ASR is under construction.

# **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

<sup>(#)</sup> 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.

<sup>(\*) 24-</sup>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.

<sup>(:)</sup> AMS-3 was effective on 3 December 2019 and AMS-4 was effective on 4 January 2023



ID	NSR ID in EIA	Location	Status
----	------------------	----------	--------

- Note 1: Construction of the NSR is not yet commenced.
  - (\*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.
  - (:) 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.
  - (#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 November 2017.
  - (~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.
  - (^) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

## 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*.

**Table 3-4** Additional Impact Monitoring Stations – Construction Noise

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		

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

# 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<sub>(30min)</sub> measurements between 07:00 and 19:00 hours on normal weekdays

<sup>(\*)</sup> 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.



# 3.5 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 3-5 Air Quality Monitoring Equipment

Equipment		Model
24-hour TSP	High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
	Calibration Kit	TISCH Model TE-5025A
1- hour TSP	Portable Dust Meter	Sibata 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 3-6 Construction Noise Monitoring Equipment

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

## 3.6 MONITORING METHODOLOGY

# 1-hour TSP

- 3.6.1 The 1-hour TSP monitor was a brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of the following:
  - (a.) A pump to draw sample aerosol through the optic chamber where TSP is measured;
  - (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

#### CEDD Service Contract No. EDO 12/2023

Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works





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<sub>(30 min)</sub> in six consecutive Leq<sub>(5 min)</sub> 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.

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

Monitoring Station	Action Level (μg /m³)		Limit Level (µg/m³)	
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





Monitoring Station	Action Level (μg /m³)		Limit Level (µg/m³)	
Momentum Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

<sup>(\*) 24-</sup>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 Limit Levels for Construction Noise

Manitaning I agation	Action Level	Limit Level in dB(A)		
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays			
NMS-1		<b>70</b> dB(A) <sup>Note 1</sup> / <b>65</b> dB(A) <sup>Note 1</sup>		
NMS-2(@)		70 db(A) / 03 db(A)		
NMS-3(:)		75 dB(A)		
NMS-4*		<b>75</b> dB(A)		
NMS-4a#		<b>75</b> dB(A)		
NMS-5#	When one or more documented	<b>75</b> dB(A)		
NMS-6~	complaints are received	<b>75</b> dB(A)		
NMS-7~		<b>75</b> dB(A)		
NMS-8^		<b>75</b> dB(A)		
CN1+		<b>70</b> $dB(A)^{\text{Note 1}} / 65 dB(A)^{\text{Note 1}}$		
CN2+		<b>70</b> $dB(A)^{Note 1} / 65 dB(A)^{Note 1}$		
CN3+		<b>75</b> dB(A)		

- Note 1: Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during examination period.
- Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
- Remark: (\*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.
  - (@) NMS-2 was effective on 15 November 2019.
  - (:) NMS-3 was effective on 3 December 2019
  - (#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 Nov 2017.
  - (~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.
  - (^) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.
  - (+) Additional noise monitoring locations as instructed by AECOM which effective in Dec 18.
- 3.7.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

# 3.8 DATA MANAGEMENT AND DATA QA/QC 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.
- 3.8.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



# 4 AIR QUALITY MONITORING

#### 4.1 GENERAL

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

## 4.2 RESULTS OF AIR QUALITY MONITORING

4.2.1 In the Reporting Period, a total of *105* events of 1-hour TSP monitoring and *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*.

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

	24-hour	1-hour TSP (μg/m³)				
Date	TSP $(\mu g/m^3)$	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading
5-Jul-25	32	3-Jul-25	9:10	58	58	52
11-Jul-25	18	9-Jul-25	9:00	62	66	60
17-Jul-25	28	15-Jul-25	14:25	62	64	56
23-Jul-25	9	21-Jul-25	14:21	49	60	54
29-Jul-25	20	26-Jul-25	13:00	56	63	58
Average (Range)	21 (9 – 32)	Averaş (Rang	-		59 (49 – 66)	

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

1-hour TSP (μg/m³)					
Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading	
3-Jul-25	9:40	58	60	58	
9-Jul-25	9:40	64	68	64	
15-Jul-25	9:13	56	62	70	
21-Jul-25	9:00	49	54	58	
26-Jul-25	9:15	64	72	60	
Average	Average (Range) 61 (49 – 72)				

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

1-hour TSP (µg/m³)							
Date							
3-Jul-25	13:10	54	60	62			
9-Jul-25	13:00	58	52	50			
15-Jul-25	8:58	64	63	67			
21-Jul-25	8:45	52	47	56			
26-Jul-25	8:40	58	54	52			
Average	Average (Range) 57 (47 – 67)						



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

1-hour TSP (μg/m³)							
Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading			
3-Jul-25	13:00	70	66	64			
9-Jul-25	9:15	62	68	72			
15-Jul-25	9:10	63	67	70			
21-Jul-25	8:50	70	66	64			
26-Jul-25	8:55	74	76	78			
Average (Range) 69 (62 – 78)							

Table 4-5 Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-5)

	24-hour	g/m <sup>3</sup> )				
Date	TSP (μg/m³)	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading
5-Jul-25	21	3-Jul-25	9:40	60	65	58
11-Jul-25	19	9-Jul-25	13:00	54	54	49
17-Jul-25	33	15-Jul-25	9:45	68	62	61
23-Jul-25	10	21-Jul-25	9:50	68	62	66
29-Jul-25	36	26-Jul-25	9:00	71	63	68
Average	24	Average 62				
(Range)	(10 - 36)	(Range	e)		(49 - 71)	

Table 4-6 Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-6)

	24-hour	1-hour TSP (μg/m³)					
Date	TSP (μg/m³)	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading	
5-Jul-25	29	3-Jul-25	9:00	60	62	68	
11-Jul-25	7	9-Jul-25	8:47	58	69	64	
17-Jul-25	6	15-Jul-25	13:00	62	66	64	
23-Jul-25	23	21-Jul-25	13:05	63	66	70	
29-Jul-25	48	26-Jul-25	13:00	64	70	66	
Average (Range)	23 (6 – 48)	Average (Range)		65 (58 – 70)			

Table 4-7 Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)

	24-hour	1-hour TSP (μg/m³)					
Date	TSP (μg/m³)	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading	
5-Jul-25	26	3-Jul-25	14:10	64	68	62	
11-Jul-25	26	9-Jul-25	13:40	95	65	68	
17-Jul-25	8	15-Jul-25	13:00	76	77	71	
23-Jul-25	11	21-Jul-25	13:00	63	71	64	
29-Jul-25	2	26-Jul-25	13:10	69	64	70	
Average (Range)	14 (2 - 26)	Average (Range)					

- 4.2.2 As shown in *Tables 4-1 to 4-7*, 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 **32** events noise measurements were carried out at the designated locations under Contract 1. The noise monitoring results at the designated locations are summarized in *Tables 5-1*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

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

Construction Noise Level (L <sub>eq30min</sub> ), dB(A)								
Date	NMS1	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7	NMS8
3-Jul-25	69	58	62	58	66	63	64	63
9-Jul-25	70	62	57	66	64	67	63	65
15-Jul-25	68	59	64	55	60	67	63	61
21-Jul-25	67	59	62	62	62	67	63	62
Limit Level	<b>70</b> dB( dB(A	A) / <b>65</b> ) <sup>Note 1</sup>	75 dB(A)					

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

5.2.2 For the additional noise monitoring under Contract 3, a total of **4** events noise measurements were performed for the Contract. The noise monitoring results are summarized in *Tables 5-2*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

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

Construction Noise Level (L <sub>eq30min</sub> ), dB(A)					
Date	CN3				
3-Jul-25	63				
9-Jul-25	63				
15-Jul-25	62				
21-Jul-25	59				
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.

5.2.3 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 6-1 Summary of Quantities of Inert C&D Materials

Type of Weste	Contract 4			
Type of Waste	Quantity	Disposal Location		
Total generated Inert C&D Materials ('000m³) (#)	2.145	-		
Hard Rock and Large Broken Concrete ('000m <sup>3</sup> )	0	-		
Reused in this Contract (Inert) ('000m³)	0	-		
Reused in other Projects (Inert) ('000m³)	0	-		
Disposal as Public Fill (Inert) ('000m³)	2.145	TKO 137		

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

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

Tuna of Works	Contract 4				
Type of Waste	Quantity	Disposal Location			
Recycled Metal ('000kg)	0	-			
Recycled Paper / Cardboard Packing	0	-			
('000kg)	U				
Recycled Plastic ('000kg)	0	-			
Chemical Wastes ('000kg)	0	1			
General Refuses ('000m <sup>3</sup> )	0.181	-			

<sup>(\*)</sup> Approved alternative disposal ground.

# 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 (July 2025)



## **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 4, 8, 15, 24, 29 July 2025 in which IEC joined the site inspection with SSEMC on 24 July 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*.

Table 7-1 Site Observations of Contract 4

Date	Findings / Deficiencies	Follow-Up Status
4 July 2025	No environmental issue was observed during site inspection.	• NA
8 July 2025	No environmental issue was observed during site inspection.	• NA
15 July 2025	No environmental issue was observed during site inspection.	• NA
24 July 2025	Chemical container was found without drip tray, which should be stored on drip tray properly to prevent pollution.	Chemical container     was removed and     properly stored.
29 July 2025	No environmental issue was observed during site inspection.	• NA





## 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.

 Table 8-1
 Statistical Summary of Environmental Complaints

Depositing Devied	Contract	<b>Environmental Complaint Statistics</b>				
Reporting Period	no.	Frequency	Cumulative	<b>Complaint Nature</b>		
27 Sep 2021 – 30 June 2025	4	0	11	NA		
	1	0	70	NA		
	2	0	10	NA		
1 – 31 July 2025	3	0	9	NA		
	4	0	13	NA		
	5	0	0	NA		

 Table 8-2
 Statistical Summary of Environmental Summons

Danauting Davied	Contract	Enviro	<b>Environmental Summons Statistics</b>				
Reporting Period	no.	Frequency	Cumulative	<b>Summons Nature</b>			
27 Sep 2021 – 30 June 2025	4	0	0	NA			
	1	0	0	NA			
	2	0	0	NA			
1 – 31 July 2025	3	0	0	NA			
•	4	0	0	NA			
	5	0	0	NA			

 Table 8-3
 Statistical Summary of Environmental Prosecution

Domontino Donio d	Contract	<b>Environmental Prosecution Statistics</b>				
Reporting Period	no.	Frequency	Cumulative	<b>Prosecution Nature</b>		
27 Sep 2021 – 30 June 2025	4	0	0	NA		
	1	0	0	NA		
	2	0	0	NA		
1 – 31 July 2025	3	0	0	NA		
·	4	0	0	NA		
	5	0	0	NA		



#### 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 Mitigation Measures** 

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

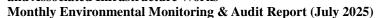
# 9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

## Contract 4 (ED/2020/02)

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

#### CEDD Service Contract No. EDO 12/2023

**Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works** 





#### 9.3 KEY ISSUES FOR THE COMING MONTH

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

#### CEDD Service Contract No. EDO 12/2023

**Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works** 





#### 10 CONCLUSIONS AND RECOMMENDATIONS

#### 10.1 CONCLUSIONS

- 10.1.1 This is 100<sup>th</sup> monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to 31 July 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 and 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. Moreover, no noise complaints (which triggered Action Level) were received for the Project.
- 10.1.4 In the Reporting Period, no environmental complaint was received in Reporting Period.
- 10.1.5 No notification of summons or successful prosecution was received under the Project.
- 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

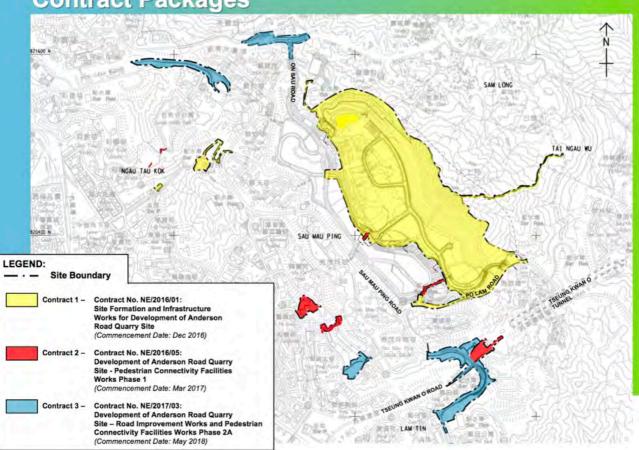
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.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

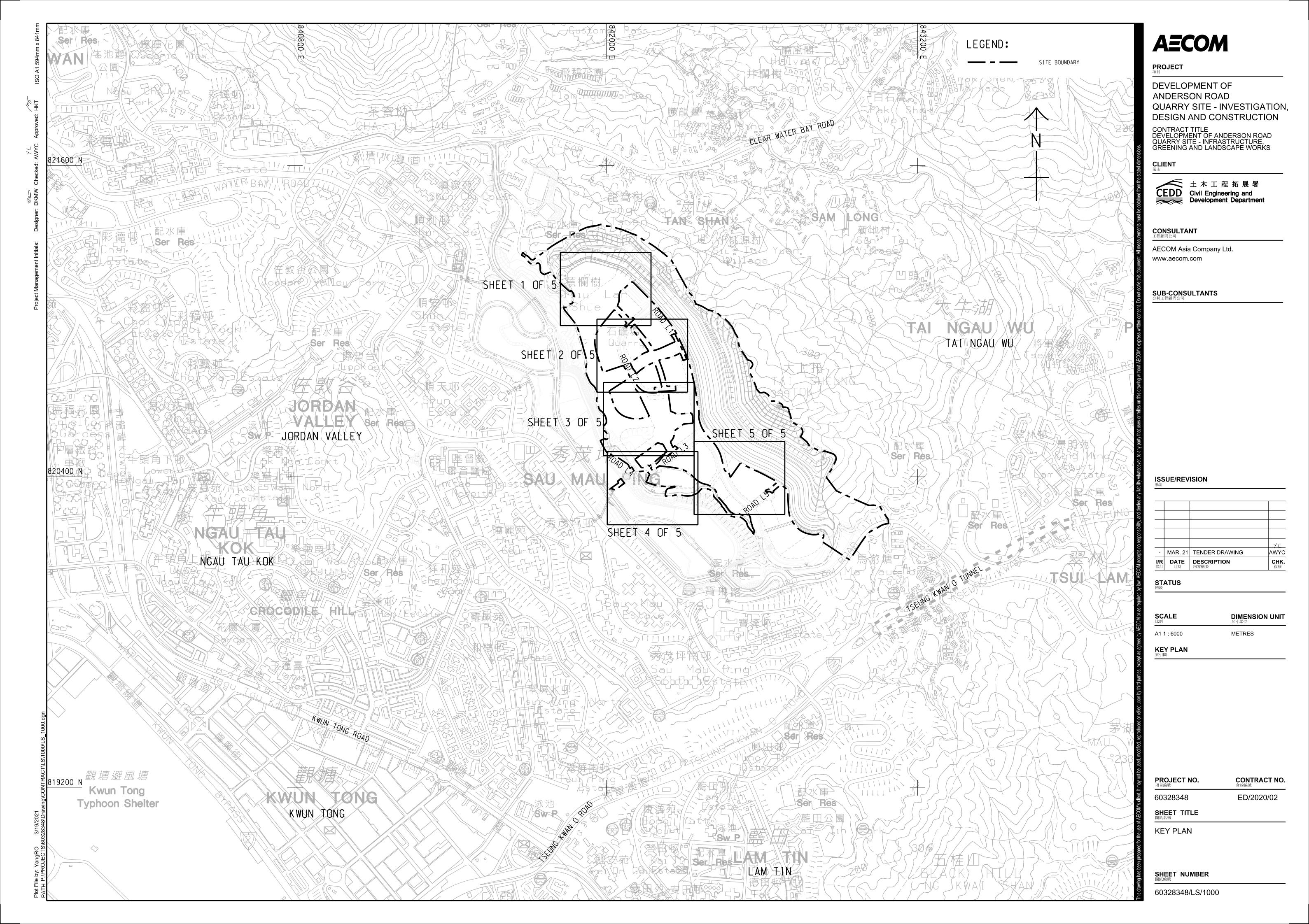
# **Contract Packages**



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 (July 2025)



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



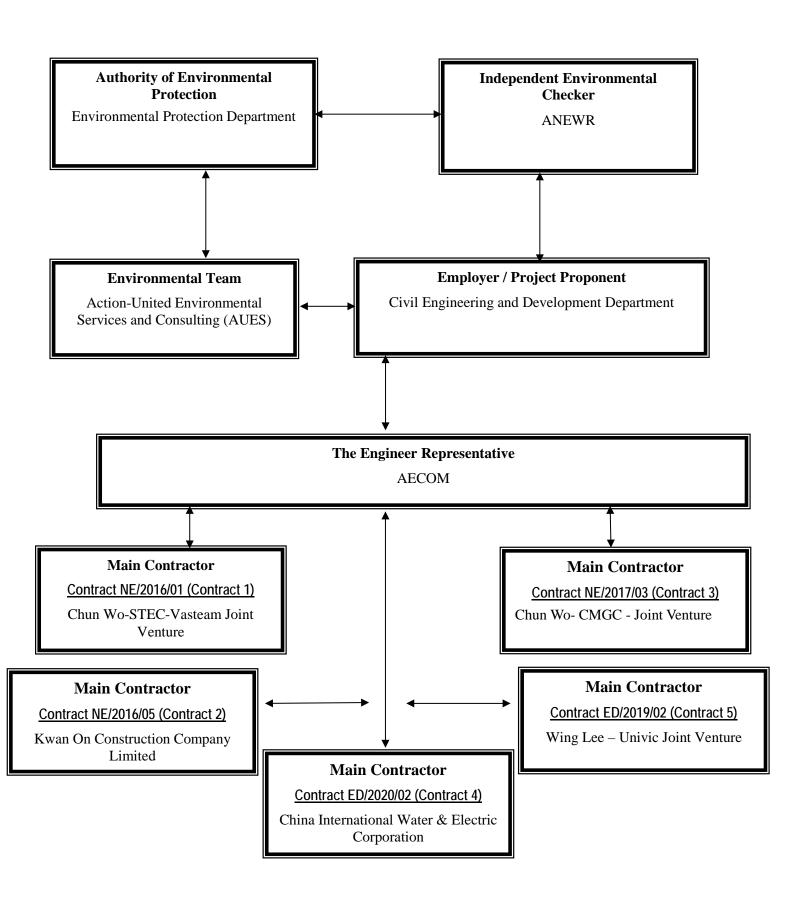


# Appendix B

**Project Organization Structure** 



# **Project Organization Structure**





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

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Li, Ling Tommy	9389 8792	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
CIWEC	Project Director	Kevin, Chan Ka Shing	6159 9750	2508 0987
CIWEC	Site Agent	John Dan	9463 3062	2508 0987
CIWEC	Environmental Officer	Man Chun Ning	6299 8850	2508 0987
CIWEC	Environmental Supervisor	Chan Ben Sun, Benson	6695 5417	2508 0987
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

# 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)

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 (July 2025)



**Contract 4 (ED/2020/02)** 

CEDD Contract No. ED/2020/02

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works
3 Months Rolling Programme (August 2025 to October 2025) China International Water & Electric Corp. 1 August 2025

o						3 Months Rolling Programme (August 2025 to October 2025)	)		
_	Task Name	Duration	Start	Finish	Predecessors	August 2025	September 2025		October 2025
1	<new summary="" task=""></new>	1567 days	Fri 30/7/21	Wed 12/11/2	5	11   21   1	1   11   21	1	11  21
2	<new summary="" task=""></new>	1950 days	Fri 30/7/21						
3	Contract Period	1950 days	Fri 30/7/21	Mon 25/1/27					
4	Contract Starting Date [Contract Award Date 21 Jul 2021]	0 days	Fri 30/7/21	Fri 30/7/21					
5	Contract Duration	1248 days	Fri 30/7/21	Sat 28/12/24	4SS				
6	Original Completion Date	0 days	Sat 28/12/24	Sat 28/12/24	5				
7	Potential EOT due to CEs and Inclement weather	319 days	Sun 29/12/24	Wed 12/11/25	6				
8	Anticipated Completion of the Whole of the Works	0 days	Mon 25/1/27	Mon 25/1/27	27FF,7				
9	Section of Works and Relevant Portions of Work	2356 days	Fri 30/7/21	Fri 12/5/28					
10	Section of Works 1 - Portions 1a, 2a & 2b	1554 days	Mon 30/8/21	Sun 30/11/25					
11	Original Completion Date	0 days	Wed 13/12/23	Wed 13/12/23	4FS+867 days				
12	Portion 1a	1312 days	Fri 29/4/22	Sun 30/11/25	-				
3	Access date	0 days	Fri 29/4/22	Fri 29/4/22	4FS+273 days				
4	Construction Duration	563 days	Fri 29/4/22	Sun 12/11/23	13SS				
5	Potential EOT due to Inclement weather and CEs	335 days	Mon 13/11/23	Sat 12/10/24	14				
6	Anticipated Completion Date	144 days	Thu 10/7/25	Sun 30/11/25					
7	Portion 2a	1554 days	Mon 30/8/21	Sun 30/11/25					
8	Access date	0 days	Mon 30/8/21	Mon 30/8/21	4FS+31 days				
9	Construction Duration	836 days	Mon 30/8/21	Wed 13/12/23	18SS				
)	Potential EOT due to Inclement weather and CEs	335 days	Thu 14/12/23	Tue 12/11/24	19				
1	Anticipated Completion Date	89 days	Wed 3/9/25	Sun 30/11/25		3	3/9		
2	Portion 2b	1448 days	Tue 14/12/21	Sun 30/11/25					
3	Access date	0 days	Tue 14/12/21	Tue 14/12/21	4FS+137 days				
4	Construction Duration	730 days	Tue 14/12/21	Wed 13/12/23	23SS				
5	Potential EOT due to Inclement weather and CEs	292 days	Thu 14/12/23	Mon 30/9/24	24				
26	Anticipated Completion Date	130 days	Thu 24/7/25	Sun 30/11/25					
7	Section of Works 1A - Establishment Works for all Landscape Softworks in Section 1 of the Works	718 days	Thu 12/12/24	Mon 25/1/27					
8	Original Completion Date	0 days	Thu 12/12/24	Thu 12/12/24	11FS+365 days				
9	Commencement of Establishment Work	0 days	Mon 1/12/25	Mon 1/12/25	30SS				
30	Establishment Work Duration	365 days	Mon 1/12/25	Mon 25/1/27	16,21,26				
31	Anticipated Completion Date	0 days	Mon 25/1/27	Mon 25/1/27	30FF				
32	Section of Works 2 - Portion 8	1530 days	Fri 30/7/21	Mon 6/10/25					1
3	Original Completion Date	0 days	Sat 29/7/23	Sat 29/7/23					
4	Access date	0 days	Fri 30/7/21	Fri 30/7/21	4				
35	Construction Duration	730 days	Fri 30/7/21	Sat 29/7/23	34				
36	Potential EOT due to Inclement weather and CEs up to Jan 2023	385 days	Sun 30/7/23	Sat 17/8/24	35				
37	Anticipated Completion Date	0 days	Mon 6/10/25	Mon 6/10/25	403FF,36			🔻	6/10
8	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works	652 days	Mon 23/12/24	Sat 21/11/26					
9	Original Completion Date	0 days	Mon 23/12/24	Mon 23/12/24					
0	Commencement of Establishment Work	0 days	Tue 7/10/25	Tue 7/10/25	41SS			<b> </b>	7/10
1	Establishment Work Duration	365 days	Tue 7/10/25	Sat 21/11/26	37			7/10	
2	Anticipated Completion Date	0 days	Sat 21/11/26	Sat 21/11/26	41FF				
3	Section of Works 3 - Portions 1b, 3, 4, 5	763 days	Fri 30/7/21	Thu 31/8/23					
4	Original Completion Date	0 days	Tue 30/5/23	Tue 30/5/23	4FS+669 days				
5	Portion 1b	276 days	Tue 29/11/22	Thu 31/8/23					
6	Access date	0 days	Tue 29/11/22	Tue 29/11/22	4FS+487 days				
7	Construction Duration	183 days	Tue 29/11/22	Tue 30/5/23	46				
8	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	47				
9	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	580FF,48				
0	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23					
1	Access date	0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days				
2	Construction Duration	609 days	Wed 29/9/21	Tue 30/5/23	51				
3	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	52				
1	Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	592FF,53				
5	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				
6		670 days	Fri 30/7/21	Tue 30/5/23	56				
	Construction Duration			Thu 31/8/23	57				
7	Construction Duration Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23						
6 7 8 9		93 days 0 days	Wed 31/5/23 Thu 31/8/23	Thu 31/8/23	603FF,58				
7	Potential EOT due to Inclement weather and CEs	-			603FF,58				
7 8 9	Potential EOT due to Inclement weather and CEs Anticipated Completion Date	0 days	Thu 31/8/23	Thu 31/8/23	603FF,58				

China International Water & Electric Corp. 1 August 2025

						3 Months Rolling Programme (August 2025 to October 2025)			
ID	Task Name	Duration	Start	Finish	Predecessors	August 2025	September 2025	24	October 2025
63	Potential EOT due to Inclement weather and CEs	93 days	Wed 31/5/23	Thu 31/8/23	62	1 11 21 1	11	21 1	11   21
64		0 days		Thu 31/8/23	607FF,63				
65	Section of Works 3A - Establishment Works for all Landscape Softworks			Fri 30/8/24					
	in Section 3 of the Works								
66		0 days		Tue 28/5/24	44FS+365 days				
67		0 days		Fri 1/9/23	68SS				
68		365 days		Fri 30/8/24	54,49,59,64				
69		-		Fri 30/8/24	68FF				
70		-		Sat 13/3/27					
71		0 days	Tue 13/6/23	Tue 13/6/23	4FS+683 days				
72		1311 days		Sun 31/8/25					
77				Sat 6/12/25					
82	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	1307 days	Wed 12/6/24	Fri 12/5/28					
87		1515 days	Fri 30/7/21	Sun 21/9/25				-	
88		0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days				
89		1454 days	Wed 29/9/21	Sun 21/9/25	,			-	
90	Access date	0 days	Wed 29/9/21	Wed 29/9/21	4FS+61 days				
91		638 days	Wed 29/9/21	Wed 28/6/23	90				
92		460 days	Thu 29/6/23	Mon 30/9/24	91				
93		0 days		Sun 21/9/25	92,777FF	-		21/9	
94		-		Sun 31/8/25					
95		-		Fri 30/7/21	4	-			
96			Fri 30/7/21	Wed 28/6/23	95	-			
97	Potential EOT due to Inclement weather and CEs	460 days	Thu 29/6/23	Mon 30/9/24	96				
98	Anticipated Completion Date	0 days	Sun 31/8/25	Sun 31/8/25	824FF,97	31.	/8	_	
99	Section of Works 5Al - Establishment Works for all Landscape Softworks	817 days	Wed 26/6/24	Wed 4/11/26					
	in Section 5A of the Works								
100		0 days	Wed 26/6/24	Wed 26/6/24	88FS+365 days			00/0	
101		0 days	Mon 22/9/25	Mon 22/9/25	102SS		أرجم	22/9	
102		365 days	Mon 22/9/25	Wed 4/11/26	93,98		22/		
103		0 days	Wed 4/11/26	Wed 4/11/26	102FF				
104		954 days	Sun 27/2/22	Mon 7/10/24	450 007 1				
105		0 days		Tue 27/6/23	4FS+697 days				
106		0 days		Sun 27/2/22	4FS+211 days				
107		487 days	Sun 27/2/22	Wed 28/6/23	106SS				
108		460 days		Mon 30/9/24	107				
109		0 days		Mon 7/10/24	108,915FF				
110		494 days 0 days	Tue 29/11/22 Tue 28/11/23	Fri 5/4/24 Tue 28/11/23	4FS+851 days				
111		0 days		Tue 29/11/22	4FS+487 days				
112	Construction Duration	365 days	Tue 29/11/22	Tue 28/11/23	112				
113 114		90 days		Mon 26/2/24	113				
		0 days		Fri 5/4/24	921FF,114				
115 116	Section of Works 6A - Establishment Works for all Landscape Softworks	-		Sat 5/4/25	JZ 11 1, 114				
110	in Section 6 of the Works	ooo uays	Jat 0/4/24	Jat JI412J					
117	Original Completion Date	0 days	Wed 27/11/24	Wed 27/11/24	111FS+365 days				
118	Commencement of Establishment Work	0 days	Sat 6/4/24	Sat 6/4/24	119SS				
119	Establishment Work Duration	365 days	Sat 6/4/24	Sat 5/4/25	115				
120	Anticipated Completion Date	0 days	Sat 5/4/25	Sat 5/4/25	119FF				
121	Section of Works 7A - Portions 13a, 14 (DELETED)	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	123,952				
125		0 days	Fri 30/7/21	Fri 30/7/21	4				
126	Construction Duration for Portion 14	669 days	Fri 30/7/21	Mon 29/5/23	125				
127	Completion of Works in Portion 14	0 days	Mon 29/5/23	Mon 29/5/23	126,964,963				
128	Section of Works 7AI - Establishment Works for all Landscape Softworks	365 days	Mon 29/5/23	Tue 28/5/24					
129	in Section 7A of the Works (DELETED)  Commencement of Establishment Work for Section 7A	0 days	Mon 29/5/23	Mon 29/5/23	127				
130		365 days		Tue 28/5/24	129				
130		0 days		Tue 28/5/24	130,969				
132	•	1344 days		Fri 31/10/25	100,000				
133		0 days		Fri 29/12/23	4FS+882 days				
134		1344 days		Fri 31/10/25	0 · 002 days				
134	. Calvir IVV	. JTT udyo	JUL EVILIEE	. 11 0 1/ 10/20					
	Task Critical Task	k 401-	estone 🛆	Summa	rv —	Progress			
		Mile	SOLUTE V	Summa	у	Progress			
3ased c	n revised Porgramme dated 31 July 2025					Page 2 /20			

						3 Months Rolling Programme (Augu	ist 2025 to October 2025	o)		
ID T	ask Name	Duration	Start	Finish	Predecessors	August 2025 1 11	24	September 2025	4	October 2025
135	Access date	0 days	Sat 26/2/22	Sat 26/2/22	4FS+211 days	1   11	21	1  11  2		11   21
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 31/10/25	Fri 31/10/25						
139	Portion 15	1343 days	Sun 27/2/22	Fri 31/10/25						
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 31/10/25	Fri 31/10/25						
144	Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	673 days	Fri 27/12/24	Mon 21/12/26						
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 1/11/25	Sat 1/11/25	147SS					
147	Establishment Work Duration	365 days	Sat 1/11/25	Mon 21/12/26	138,143					1/11
148	Anticipated Completion Date	0 days	Mon 21/12/26	Mon 21/12/26	147FF					
149	Section of Works 8 - Portion 16	564 days	Thu 16/6/22	Sun 31/12/23						
150	Original Completion Date	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	· · · · · · · · · · · · · · · · · · ·	0 days	Sun 31/12/23	Sun 31/12/23	153,1165FF					
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	1282 days	Sun 27/2/22	Sun 31/8/25	450 . 000 days					
161	Original Completion Date  Access date	0 days	Fri 29/12/23 Sun 27/2/22	Fri 29/12/23 Sun 27/2/22	4FS+882 days 4FS+212 days					
162 163	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		0 days	Sun 31/8/25	Sun 31/8/25	164,1181FF		_	31/8		
166	Section of Works 9A - Establishment Works for all Landscape Softworks		Sat 28/12/24	Sat 10/10/26				0.13		
	in Section 9 of the Works				10150 005 1					
167	Original Completion Date	0 days	Sat 28/12/24	Sat 28/12/24	161FS+365 days			04/0		
168	Commencement of Establishment Work  Establishment Work Duration	0 days	Sun 31/8/25	Sun 31/8/25	165SS		1/9	31/8		
169	Anticipated Completion Date	365 days 0 days	Mon 1/9/25 Sun 31/8/25	Sat 10/10/26 Sun 31/8/25	165 165FF			31/8		
170 171	Section of Works 10 - All Tree Protection and Preservation Works	1202 days	Fri 30/7/21	Tue 12/11/24	10311		•	31/0		
172	Original Completion Date	0 days	Fri 29/12/23	Fri 29/12/23	133FF					
173	Commencement of All Tree Protection and Preservation Work	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	0 days	Tue 12/11/24	Tue 12/11/24	175,1258FF					
177 F	reliminaries	1567 days	Fri 30/7/21	Wed 12/11/25						
178	Establishment of Commercial/Organization	370 days	Fri 30/7/21	Wed 3/8/22						
179		7 days	Fri 30/7/21	Thu 5/8/21	4					
180	· · · · · · · · · · · · · · · · · · ·	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		7 days	Fri 30/7/21	Thu 5/8/21	4					
183	Notification to Labour Department/Marine Department of the commencement date and other details of the contract	/ days	Fri 30/7/21	Thu 5/8/21	4					
184	Submission of Summary Details of Contract to the Departmental Safety and Environmental	21 days	Fri 30/7/21	Thu 19/8/21	4					
185		7 days	Fri 30/7/21	Thu 5/8/21	4					
186	Set up Site Liaison Group (SLG)	7 days	Fri 30/7/21	Thu 5/8/21	4					
187	Professional video production company and a competent video director	7 days	Fri 30/7/21	Thu 5/8/21	4					
188	Surveyor, Key People	7 days	Fri 30/7/21	Thu 5/8/21	4					
189		7 days	Fri 30/7/21	Thu 5/8/21	4					
190	Particulars of Independent service provider for Digital Works Supervision Systems		Fri 30/7/21	Thu 5/8/21	4					
191	Contractor's Management Team	14 days	Fri 30/7/21	Thu 12/8/21	4					
192		14 days	Fri 30/7/21	Thu 12/8/21	4					
193	Competent member of the sites supervisory staff to oversee and supervise tree works related to arboricultural operations and preservation of trees within		Fri 30/7/21	Thu 19/8/21	4					
194	· · · · · · · · · · · · · · · · · · ·	21 days	Fri 30/7/21	Thu 19/8/21	4					
	Test		notono A	^		Programa				
Daniel	Task Critical Task	Mile	solone 💙	Summa	iy	Progress Page 3 /20				

China International Water & Electric Corp. 1 August 2025

						3 Months Rolling Programme (August 2025 to October 2025			
ID 7	ask Name	Duration	Start	Finish	Predecessors	August 2025	September 2025		October 2025
105	Destinates of the section of account of the section	04 days	F-: 20/7/04	Th 40/0/04	4	1 11 21	1 11 21	1	11 21
195	Particulars of the assigned person (competent member with arboriculture knowledge of the site supervisory for tree preservation)	21 days	Fri 30/7/21	Thu 19/8/21	4				
196	Details of Geotechnical monitoring team	21 days	Fri 30/7/21	Thu 19/8/21	4				
197	Design of the CRE Site Office certified by an accepted ICE	30 days	Fri 30/7/21	Sat 28/8/21	4				
198	Design Architect	30 days	Fri 30/7/21	Sat 28/8/21	4				
199	Specially required staff	30 days	Fri 30/7/21	Sat 28/8/21	4				
200	Public Relation Officer	30 days	Fri 30/7/21	Sat 28/8/21	4				
201	Site Safety Committee (SSC) Meeting (monthly afterwards)	30 days	Fri 30/7/21	Sat 28/8/21	4				
202	Meeting of the SSMC (monthly afterwards)	30 days	Fri 30/7/21	Sat 28/8/21	4				
203		60 days	Fri 30/7/21	Mon 27/9/21	4				
204	Proposed gasket material for waterworks	60 days	Fri 30/7/21	Mon 27/9/21	4				
205		60 days	Fri 30/7/21	Mon 27/9/21	4				
200	uniform; Provide uniforms within 5 days after the design is accepted by PM	,							
206	2 Engineering Graduates & 3 Technician apprentices	90 days	Fri 30/7/21	Wed 27/10/21	4				
207	Commissioning of DWSS	90 days	Fri 30/7/21	Wed 27/10/21	4				
208	Agree on the content and presentation of the dashboard of DWSS	90 days	Fri 30/7/21	Wed 27/10/21	4				
209	Monthly collaboration and information exchange of BIM	90 days	Fri 30/7/21	Wed 27/10/21	4				
210	Combined Services Drawing (CSD) and CBWD generated from BIM model	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	34 days	Fri 1/7/22	Wed 3/8/22					
214	Independent Checking Engineer (ICE)  Plan & Proposals	60 days	Fri 30/7/21	Mon 27/9/21					
214		30 days	Fri 30/7/21	Sat 28/8/21	4				
210	electronic copies)	- 5 00,0	00///21	30. 200/21	·				
216	Preparation and submission of Waste Management Plan (WMP)	30 days	Fri 30/7/21	Sat 28/8/21	4				
217	Preparation and submission of Draft Construction Health and Safety Plan (3	7 days	Fri 30/7/21	Thu 5/8/21	4				
210	copies)  Preparation and submission of Quality Policy statement and quality plan	7 days	Fri 30/7/21	Thu 5/8/21	4				
218 219		4 days	Fri 30/7/21	Mon 2/8/21	4				
219	(EMP) 3 copies	4 days	11130/1/21	WIOTI 2/0/2 I	1				
220	Tender requirements for suppliers of Plant and Materials, Equipment and	14 days	Fri 30/7/21	Thu 12/8/21	4				
221	Insurance Proposal  Preparation of Proposal for arrangement for placement of storage	14 days	Fri 30/7/21	Thu 12/8/21	4				
221	compartments/ drinking water facilities/ toilet/ hand-wash facilities/ showering		111 00/1/21	1110 12/0/21	T				
	rubbishbin/ working shelter on Site			- 10 mm	ļ <u>.</u>				
222	Preparation Proposal for security system	14 days	Fri 30/7/21	Thu 12/8/21	4				
223		21 days	Fri 30/7/21	Thu 19/8/21	4				
224		21 days	Fri 30/7/21	Thu 19/8/21 Sat 28/8/21	4				
225	Preparation and submission of Construction Health and Safety Plan (6 copies	1	Fri 30/7/21 Fri 30/7/21	Sat 28/8/21	4				
226	Weather protection scheme  Proposal of COBie information requirements	30 days	Fri 30/7/21	Sat 28/8/21	4				
227 228	<u> </u>	30 days	Fri 30/7/21	Sat 28/8/21	4				
220	(EMP) 3 copies	oo days	111 00/1/21	Out 20/0/21	Ĭ l				
229		30 days	Fri 30/7/21	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				
	(STSMP), (monthly update)								
231		60 days	Fri 30/7/21	Mon 27/9/21	4				
232	Preparation and submission of BIM Execution Plan accordance with the PSA 1.14D	A 60 days	Fri 30/7/21	Mon 27/9/21	4				
233	Public Relation (PR) Company, PR plan	60 days	Fri 30/7/21	Mon 27/9/21	4				
234		7 days	Fri 30/7/21	Thu 5/8/21	4				
235		411 days	Thu 16/3/23	Mon 29/4/24					
236		45 days	Thu 16/3/23	Sat 29/4/23					
237	<u> </u>	115 days	Sun 30/4/23	Tue 22/8/23	236				
238	Deliveries and site inspection of bearing for elevated walkway etc.	15 days	Wed 23/8/23	Wed 6/9/23	237				
239	Procurement & material submission of movement joinst for elevated walkway		Thu 16/3/23	Sat 29/4/23					
240	Design, manufacturing and FAT of movement joinst for elevated walkway		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				
242	Procurement of Raise Planter Type A&B	60 days	Mon 1/1/24	Thu 29/2/24					
243	Manufacturing, FAT & delivery of Raise Planter Type A&B	60 days	Fri 1/3/24		242				
244	Procurement of Balustrade Wall BW1-2	60 days	Mon 1/1/24	Thu 29/2/24					
245	Manufacturing, FAT & delivery of Balustrade Wall BW1-2	60 days	Fri 1/3/24	Mon 29/4/24	244				
246	Procurement of Children Play Areas & water play area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24					
247	Design, Manufacturing, FAT & delivery of Children Play Areas & water play	60 days	Fri 1/3/24	Mon 29/4/24	246				
040	area Park Facilities  Procurement of Adult fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24					
248 249		60 days	Fri 1/3/24	Mon 29/4/24	248				
250	Procurement of Elderly fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24	LTU				
230	· · · · · · · · · · · · · · · · · · ·						11		
	Task Critical Task	Mile	stone 🔷	Summar	y	Progress			

China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works

3 Months Rolling Programme (August 2025 to October 2025)

ID Ta						3 Months Rolling Programme (August 2025 to October 2025)	,	
Te	k Name	Duration	Start	Finish	Predecessors	August 2025	September 2025	 Octo
+	Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	250	1 11 21 1	1 11 21	 11
+		•	Fri 30/7/21	Mon 13/10/25	250			
			Fri 30/7/21	Wed 4/8/21	4	-		
		•				_		
	· · · · · · · · · · · · · · · · · · ·	*	Fri 30/7/21	Thu 12/8/21	4			
5			Thu 5/8/21	Wed 18/8/21	253			
i		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			
	Implementation of Programme Management and Monthly Reporting	1443 days	Mon 1/11/21	Mon 13/10/25	257	1%		
	ermit and Licences	60 days	Fri 30/7/21	Mon 27/9/21				
)	Detailed construction sequences with associated traffic diversion schemes	30 days	Fri 30/7/21	Sat 28/8/21	4			
	and obtain endorsement in principle from the relevant authorities and the							
!		· ·	Fri 30/7/21	Thu 5/8/21	4			
	Welfare facilities for workers in accordance with requirements in PS Clause 1.	7 days	Fri 30/7/21	Thu 5/8/21	4			
1	UU detection equipment brand/model	7 days	Fri 30/7/21	Thu 5/8/21	4			
_	Certified calibration certificates	7 days	Fri 30/7/21	Thu 5/8/21	4	1		
_	Contract Computer Facilities, Electronic Document Management System,	6 days	Fri 30/7/21	Wed 4/8/21	4	-		
	Site Record Information System, Digital Works Supervision System and other							
		6 days	Fri 30/7/21	Wed 4/8/21	4			
-	payment of wages to all the Site Workers		=					
			Fri 30/7/21	Thu 5/8/21	4			
	3 sets of coloured record photos in SR size (recording existing building/ street	7 days	Fri 30/7/21	Thu 5/8/21	4			
-	furniture)	7 days	F.: 20/7/04	Th., 5/0/04	4	_		
4			Fri 30/7/21	Thu 5/8/21	4			
	<u> </u>		Fri 30/7/21	Thu 5/8/21	4			
	Survey Equipment for Initial survey	7 days	Fri 30/7/21	Thu 5/8/21	4			
	Inclinometer access tubes - suppliers, material specification and samples of	14 days	Fri 30/7/21	Thu 12/8/21	4			
1	the tubes and couplings	44 dava	E-: 00/2/01	Th 40/0/01	4			
1		•	Fri 30/7/21	Thu 12/8/21	4			
	<u>*</u>	14 days	Fri 30/7/21	Thu 12/8/21	4			
	Supply of Survey Equipment for PM use	30 days	Fri 30/7/21	Sat 28/8/21	4			
	Complete setting up and begin to operate the Security System	60 days	Fri 30/7/21	Mon 27/9/21	4			
	Initial Survey	60 days	Fri 30/7/21	Mon 27/9/21	4	-		
+	•	60 days	Fri 30/7/21	Mon 27/9/21	4	-		
		-	Fri 1/7/22	Tue 29/4/25		-		
		-	Fri 1/7/22	Fri 30/12/22		-		
+		-			4			
<u> </u>		·	Fri 1/7/22	Sun 31/7/22	4	_		
		15 days	Mon 1/8/22	Mon 15/8/22	281			
		16 days	Tue 16/8/22	Wed 31/8/22	282			
	Re-submission	30 days	Thu 1/9/22	Fri 30/9/22	283			
	Design Checker Review & Endorsement	7 days	Sat 1/10/22	Fri 7/10/22	284	1		
$\vdash$	DDA Submission (circulation to Government Authorities)	8 days	Sat 8/10/22	Sat 15/10/22	285	-		
+	<u> </u>	7 days	Sun 16/10/22	Sat 22/10/22	286	-		
+		69 days	Sun 23/10/22	Fri 30/12/22	287	-		
					201	_		
1		341 days	Mon 14/11/22	Fri 20/10/23				
$\perp$		-	Fri 1/11/24	Tue 29/4/25		_		
		30 days	Wed 6/11/24	Thu 5/12/24				
	Internal review, ICE, CSD and submission	60 days	Fri 6/12/24	Mon 3/2/25	291			
	AIP	30 days	Tue 4/2/25	Wed 5/3/25	292			
	Contractor's Design [Enhancement on Architectural Design & Associated	1036 days	Fri 14/1/22	Thu 14/11/24		-		
	Vorks]							
	Engagement of Design Architectural Firm (CE 005)	0 days	Fri 14/1/22	Fri 14/1/22				
i	Enhancement on Architectual Design & Associated Works at Portions 1a, 2a	0 days	Tue 4/4/23	Tue 4/4/23	295			
+	and 2b (Quarry Lake) (CE 070)	075 4	F.: 4/3/00	0-44/4/00				
$\perp$		•	Fri 1/7/22	Sat 1/4/23				
	Schematic Landscape Master Plan (LMP), Design AIP, GBP approval	153 days	Fri 1/7/22	Wed 30/11/22	295			
	Production of AIP Drawings	92 days	Sat 31/12/22	Sat 1/4/23	298			
	DSD's AIP approval	0 days	Sat 1/4/23	Sat 1/4/23	299			
+		473 days	Mon 31/7/23	Thu 14/11/24		-		
+		92 days	Wed 30/8/23	Thu 30/11/23	300	-		
		-				-		
		0 days	Thu 30/11/23	Thu 30/11/23				
		0 days	Wed 30/8/23	Wed 30/8/23				
	Civil	46 days	Wed 30/8/23	Sun 15/10/23	300			
	Underground rain water drainage	0 days	Sun 15/10/23	Sun 15/10/23				
	Lindarground watermain	0 days	Wed 30/8/23	Wed 30/8/23		-		
	Underground watermain					_		
		0 days	Sat 30/9/23	Sat 30/9/23				
	Undergroud sewerage	0 days 0 days	Sat 30/9/23 Wed 30/8/23	Sat 30/9/23 Wed 30/8/23				

China International Water & Electric Corp. 1 August 2025

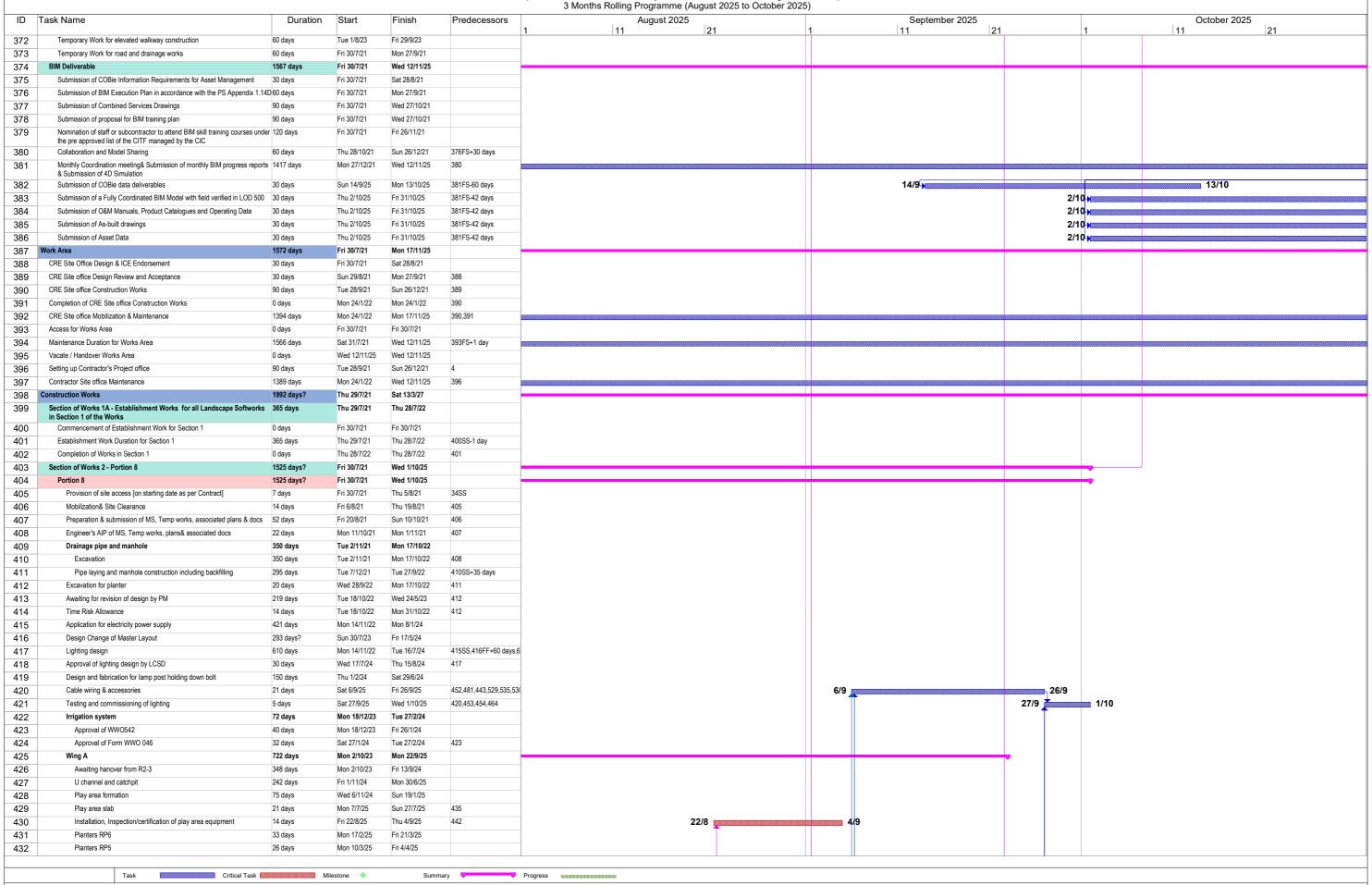
Description	
Section   Sect	21
155	
Martin   M	
1515   1.	
All Strangers of China Interface   Strangers   Stran	
1925	
273   187   Mark Process Subsiding   1885	
Process	
Section	
227   18	
25	
1995   1997   1998	
1	
Cate Procession Part Services   Cate Part Service	
C. Marie Institute Marie Mar	
1932   Sectionary   Tellogy   Tell	
State	
33.45         Ess M         166 days         Fis-SOAL         No. 14 stayu         200 and 2403         Mary 12023         300 and 330         Stayu fished Ancommodion (Sulf) Sulminion         161 days              300 and 2403              301 stayu              1 days              301 days                     338                   Stayu fill (CO)                   M. Horis                   80 pick                   No. 74023                   337                   A formation of signature                   80 pick                   No. 74023                   337                   A formation of signature                        80 pick	
Stockedur of Accommodition (SAA) Submission   14 days   Sun 24/23   Sun 24/2	
Sept	
Signature   Section   Se	
339	
1.00	
Substance   Subs	
1.54   Submission	
342         Desproal         0.6gs         Mon-2/80/20         Mon-2/80/20         341           343         DSSV-VOR abunitation         \$18.5gs         Fri FY/20         The 46/23         Common of the common of	
DSD NCAB submission   193 days	
Submission and presentation   Original Test 18623   Thu 45723   345	
Submission and presentation   B days   Fin 74/23   Fin 144/23	
Substitution   Subs	
Stage 2 - Detailed design	
348         Submission and presentation         0 days         Tus 19823         Tus 19823         A provided           349         VCND meeting         0 days         Tun 79923         Tun 79923         A49           350         Approval         30 days         Tun 79923         A49           351         Sub-letting (Cost Trimming Scheme)         211 days         Wed 13023         Wed 37923           352         Diversige for cost estimation         30 days         Wed 13023         Mon 190423         A52           353         Tender approval         11 days         Fri 313223         Mon 190423         A52           354         Tender approval         11 days         Fri 317223         Mon 190423         A52           355         Tender adjournal         11 days         Fri 317223         Mon 240423         A52           356         Tender adjournal         8 days         Mon 170423         A52           356         Tender adjournal approval         12 days         Saz 20423         Wed 10523         A56           357         Poll preparation         56 days         Ten 116223         355         A56           368         Recost trimming by OSD         21 days         Nat 98723         356 <tr< th=""><td></td></tr<>	
349   VCAB meeting	
Solution   Solution   Cost Trimming Scheme   Solidays   Thu 79/23   Fel folia   Solution   Solution   Cost Trimming Scheme   Solidays   Wed 17/23   Wed 17/23   Wed 17/23   Solution   Solidays   Wed 17/23   Wed 17/23   Solution   Solidays   Wed 17/23   Thu 30/3/23   Solor Fe-32 days   Solution   Solidays   Tender approval   11 days   Fe 3/10/22   Men 10/4/23   Solidays   Fe 28/4/23   Solidays   Fe 28/4/24   So	
351   Sub-letting (Cost Trimming Scheme)   211 days   Wed 179/23   Wed 279/23	
352   Drawings for cost estimation   30 days   Wed 1/3/23   Thu 30/3/23   300FS-32 days	
353   Tender approval   11 days   Fri 31/3/3   Mon 10/4/23   352	
354   Tender addendum	
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   PMII preparation   58 days   Thu 11/5/23   Fri 77/7/23   356	
358         Recost trimming by DSD         21 days         Sat 87/23         Fri 287/23         357           359         Resubmission of detailed design         30 days         Tue 8/8/23         Wed 6/9/23         358           360         Retendering         21 days         Thu 7/9/23         Wed 27/9/23         359           361         Material submission         181 days         Thu 28/9/23         Tue 26/3/24         360           362         Method Statements & Temporary Works         792 days         Fri 307/72         Fri 309/33         1           363         Preparation & submission of generic method statement for site formation work of 90 days         Tue 1/11/22         Fri 30/12/22         1           364         Preparation & submission of generic method statement for earth slope works of 90 days         50 days         Tue 1/11/22         Fri 30/12/22         1           365         Preparation & submission of generic method statement for retaining wall occurred for the preparation & submission of generic method statement for G.I works         60 days         Wed 1/6/22         Sat 30/7/22         Image: Saturation &	
359   Resubmission of detailed design   30 days   Tue 8/8/23   Wed 6/9/23   358     360   Retendering   21 days   Thu 7/9/23   Wed 27/9/23   359     361   Material submission   181 days   Thu 28/9/23   Tue 26/3/24   360     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   60 days   Tue 1/11/122   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   Preparation & submission of generic method statement for G.I works   60 days   Fri 30/7/21   Mon 27/9/21	
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         Preparation & 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         60 days         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         Preparation & submission of generic method statement for GJ works         60 days         Fri 30/7/21         Mon 27/9/21	
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  60 days  Tue 1/11/22  Fri 30/12/22  Sat 30/7/22  Sat 30/7/22  365 Preparation & submission of generic method statement for retaining wall construction  366 Preparation & submission of generic method statement for G.I works  60 days  Fri 30/7/21  Mon 27/9/21	
Method Statements & Temporary Works 792 days Fri 307/21 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 60 days Tue 1/11/22 Fri 30/12/22  365 Preparation & submission of generic method statement for retaining wall construction  366 Preparation & submission of generic method statement for G.I works 60 days Fri 307/21 Mon 27/9/21	
Preparation & submission of generic method statement for site formation work 60 days  Tue 1/11/22 Fri 30/12/22  Tue 1/11/22 Fri 30/12/22  Sat 30/7/22  Sat 30/7/22  Tue 1/11/22 Fri 30/12/22  Fri 30/12/22  Sat 30/7/22  Sat 30/7/22  Tue 1/11/22 Fri 30/12/22  Mon 27/9/21	
Preparation & submission of generic method statement for earth slope works 60 days  Tue 1/11/22  Fri 30/12/22  Preparation & submission of generic method statement for retaining wall construction  Go days  Wed 1/6/22  Sat 30/7/22  Sat 30/7/22  Sat 30/7/22  Mon 27/9/21	
Preparation & submission of generic method statement for earth slope works 60 days  Tue 1/11/22 Fri 30/12/22  Preparation & submission of generic method statement for retaining wall construction  The proparation & submission of generic method statement for G.I works  Fri 30/7/21 Mon 27/9/21	
Preparation & submission of generic method statement for retaining wall construction  60 days  Wed 1/6/22  Sat 30/7/22  Sat 30/7/22  Sat 30/7/22  Mon 27/9/21	
construction  366 Preparation & submission of generic method statement for G.I works 60 days Fri 30/7/21 Mon 27/9/21	
367 Preparation & Submission of generic method statement for drainage works 60 days Fri 307/21 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	
Preparation & submission of generic method statement of elevated walkway 60 days Thu 1/6/23 Sun 30/7/23	
construction  Codes Code	
370 Temporary Work for cut/fill slope works 60 days Tue 1/11/22 Fri 30/12/22	
371 Temporary Work for retaining wall construction 60 days Wed 1/6/22 Sat 30/7/22	
Task Milestone 💠 Summary V Progress	

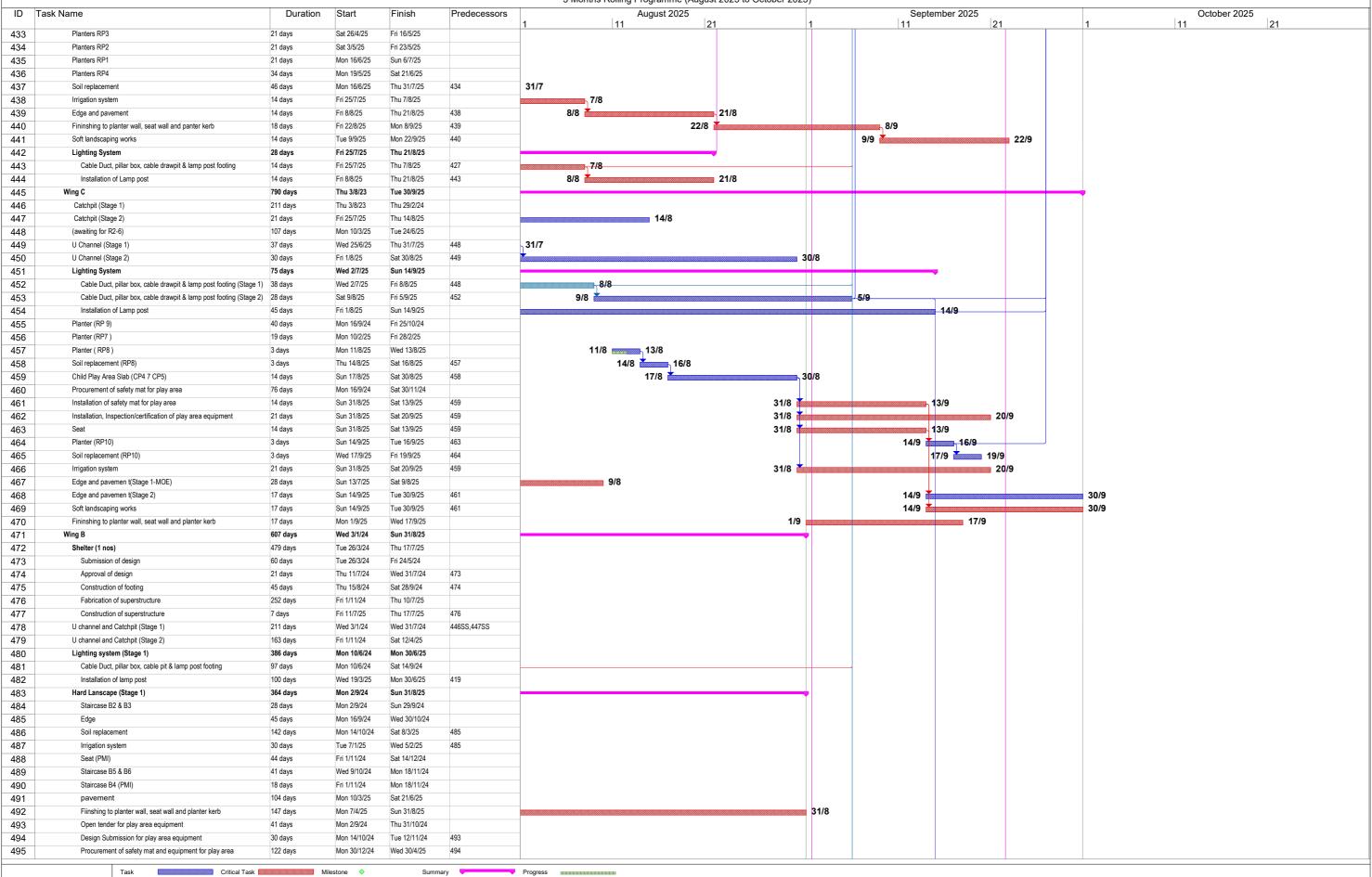
China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

1 August 2025

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works





China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

1 August 2025

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works

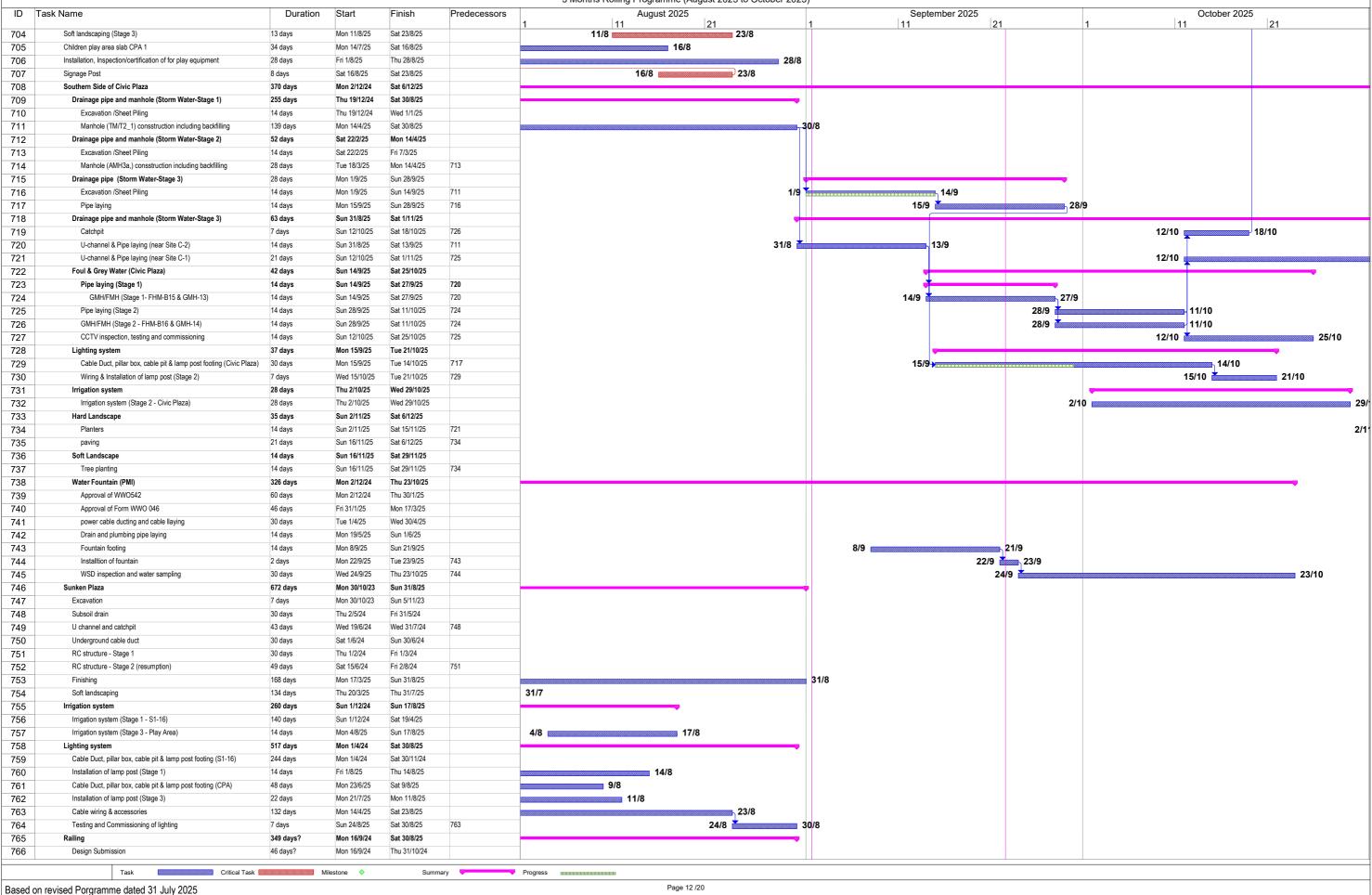


## CEDD Contract No. ED/2020/02 Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works 3 Months Rolling Programme (August 2025 to October 2025)

ID -	ask Name	Duration	Start	Finish	Predecessors	August 2025			September 2025			October 2025	101
576	Commencement of Establishment Work for Section 2	0 days	Mon 1/9/25	Mon 1/9/25	520FF+1 day	11	21	1/9	11   2	21	1	11	21
577	Establishment Work Duration for Section 2	365 days	Mon 1/9/25	Sat 10/10/26	576SS-1 day		1/	9 173					
78	Completion of Works in Section 2	0 days	Sat 10/10/26	Sat 10/10/26	577		"						
79	Section of Works 3 - Portions 1b, 3, 4, 5	763 days	Fri 30/7/21	Thu 31/8/23									
80		276 days	Tue 29/11/22	Thu 31/8/23									
81		7 days	Tue 29/11/22	Mon 5/12/22	46SS								
582	Mobilization& Site Clearance	14 days	Tue 6/12/22	Mon 19/12/22	581								
583	Time Risk Allowance	7 days	Tue 20/12/22	Mon 26/12/22	582								
584	PMI 066	50 days	Thu 13/7/23	Thu 31/8/23	002								
585	Sewerage pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	583								
586	Greywater pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	585SS								
587	Laying of 75mm thick milled asphalt chips	7 days	Fri 25/8/23	Thu 31/8/23	586FF								
	Lighting	163 days	Wed 22/3/23	Thu 31/8/23	30011								
88		-	Wed 22/3/23	Mon 12/6/23									
89	Application for electricity power supply	83 days			E0000								
90	Lighting design	140 days	Wed 22/3/23	Tue 8/8/23	589SS								
91	Installation including ducting, draw pit and lighting	23 days	Wed 9/8/23	Thu 31/8/23	590,586FF								
92	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23	5400								
93	Access date	0 days	Wed 29/9/21	Wed 29/9/21	51SS								
94	Deferred possession (CE 004 & 006)	61 days	Wed 29/9/21	Sun 28/11/21	504								
95	Provision of site access	7 days	Mon 29/11/21	Sun 5/12/21	594								
96	Mobilization& Site Clearance	14 days	Mon 6/12/21	Sun 19/12/21	595								
597		52 days	Mon 20/12/21	Wed 9/2/22	596								
98	Engineer AIP of MS, Temp works, plans& associated docs	21 days	Thu 10/2/22	Wed 2/3/22	597								
99	Installation of chain link fencing	92 days	Thu 1/6/23	Thu 31/8/23	598								
300	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23									
801	GI works (PMI 006)	7 days	Mon 3/10/22	Sun 9/10/22									
02	Additional drainage works (PMI 075)	30 days	Wed 2/8/23	Thu 31/8/23	599FF,600FF								
603	Portion 4	763 days	Fri 30/7/21	Thu 31/8/23									
04	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	56SS								
605	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23	600FF,609FF								
606	GI works (PMI 006)	10 days	Mon 10/10/22	Wed 19/10/22	601								
607	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23									
808		7 days	Sun 27/2/22	Sat 5/3/22	61SS								
609	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23									
610	<u> </u>	31 days	Tue 1/8/23	Thu 31/8/23	609FF								
611	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									
315	Section of Works 4 - Portions 6, 12	1991 days?	Fri 30/7/21	Sat 13/3/27									
316	Portion 6	1311 days?	Sat 29/1/22	Sun 31/8/25				<b>-</b>					
617	Provision of site access [183 days after starting date as per Contract]	0 days	Sat 29/1/22	Sat 29/1/22	73SS								
618	Deferred possession	81 days	Sat 29/1/22	Tue 19/4/22	617								
19	Mobilization& Site Clearance	14 days	Wed 20/4/22	Tue 3/5/22	618								
20		0 days	Wed 14/9/22	Wed 14/9/22	619								
21	Drainage works under PMQP 004	0 days	Fri 14/10/22	Fri 14/10/22	619								
522	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	415SS								
323	Design Change of Layout (PMI-085)	1 day	Wed 5/7/23	Wed 5/7/23									
624	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	622SS								
25	Approval of lighting design by LCSD	30 days	Thu 18/7/24	Fri 16/8/24	624								
26	Time Risk Allowance	14 days	Fri 14/10/22	Thu 27/10/22	625								
27	Retaining wall RWA20	618 days	Tue 2/5/23	Wed 8/1/25									
28	Excavation	112 days	Tue 2/5/23	Mon 21/8/23									
29	Blinding layer	110 days	Tue 9/5/23	Sat 26/8/23	628SS+7 days								
30	Base slab (21 bays)	169 days	Tue 16/5/23	Tue 31/10/23	629SS+7 days								
31	Wall stem (21 bays)	136 days	Mon 3/7/23	Wed 15/11/23	630SS+10 days								
32	Additional Sewage System (PMI 086)	170 days	Thu 30/11/23	Fri 17/5/24	631								
33	PMI for Grey Water	30 days	Sat 18/5/24	Sun 16/6/24	632								
34	pipe laying and drainage structure (Stage 1)	183 days	Wed 31/1/24	Wed 31/7/24									
35	pipe laying and drainage structure (Stage 2)	7 days	Thu 2/1/25	Wed 8/1/25									
36	Backfilling (15 layers)	117 days	Tue 16/4/24	Sat 10/8/24									
37	Retaining wall RWA19	382 days?	Fri 1/12/23	Mon 16/12/24									
	Blinding layer (1-13)	45 days	Fri 1/12/23	Sun 14/1/24									
38	Base slab (1-13)	1	Mon 18/12/23	Mon 5/2/24	638SS+5 days								
320	Dage glab (1-10)	50 days		Thu 29/2/24	639SS+9 days								
39 40	Wall stem (1-13)	59 days	Tue 2/1/24										

Based on revised Porgramme dated 31 July 2025

						3 Months Rolling Programme (August 2025 to October 2025	5)	
ID Tas	sk Name	Duration	Start	Finish	Predecessors	August 2025	September 2025	October 2025
						1   11   21	1   11   21	1   11   21
641	pipe laying and drainage structure	30 days	Thu 1/8/24	Fri 30/8/24				
642	Backfilling (1-11)	69 days	Mon 2/9/24	Sat 9/11/24				
643	Blinding layer (14-18)	28 days	Sat 4/5/24	Fri 31/5/24				
644	Base slab (14-18)	28 days	Sun 5/5/24	Sat 1/6/24				
645	Wall stem (14-18)	45 days	Thu 9/5/24	Sat 22/6/24				
	· · ·	148 days?	Mon 22/7/24	Mon 16/12/24				
646	Pipe Laying and Drainage Structure (12-18)	1						
647	Backfilling (12-18)	71 days	Mon 2/9/24	Mon 11/11/24				
648	Railing for RWA 19 & 20	91 days	Fri 2/5/25	Thu 31/7/25		31/7		
649	U channel & catchpit (1-11)	113 days	Mon 10/6/24	Mon 30/9/24				
650	U channel & catchpit (12-18)	232 days	Sat 2/11/24	Sat 21/6/25				
651	edging (1-11)	144 days	Mon 10/6/24	Thu 31/10/24				
652	edging (12-18)	6 days	Mon 18/11/24	Sat 23/11/24				
			Mon 9/9/24	Sat 19/7/25				
653	pavement	222 days			650		24/0	
654	Finsihing	175 days	Mon 10/3/25	Sun 31/8/25	652		31/8	
655	Soft landscaping works (Stage 1)	24 days	Mon 2/9/24	Wed 25/9/24				
656	Soft landscaping works (Stage 2)	55 days	Mon 23/6/25	Sat 16/8/25		16/8		
657	CCTV inspection, testing and commissioning	21 days	Mon 11/8/25	Sun 31/8/25		11/8	31/8	
658	Irrigation system Submission	716 days	Tue 16/5/23	Wed 30/4/25				
659	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23				
660	Approval of WW0542	40 days	Wed 1/11/23	Sun 10/12/23	659			
		-			660			
661	Approval of Form WWO 046	32 days	Mon 11/12/23	Thu 11/1/24	JUU			
662	Approval of WWO542 (amendment)	30 days	Mon 30/12/24	Tue 28/1/25				
663	Approval of Form WWO 046 (amendment)	30 days	Wed 29/1/25	Thu 27/2/25	662			
664	Irrigation system	163 days	Mon 8/7/24	Wed 30/4/25				
665	Lighting system	434 days	Mon 24/6/24	Sun 31/8/25				
666	Cable Duct, pillar box, cable pit & lamp post footing	311 days	Mon 24/6/24	Wed 30/4/25				
667	Cable wiring & accessories	83 days	Mon 17/2/25	Sat 10/5/25				
	Installation of lamp post	82 days	Sun 11/5/25	Thu 31/7/25	667	31/7		
668		-				Ш.	24/0	
669	Testing and Commissioning of lighting	31 days	Fri 1/8/25	Sun 31/8/25	668	*	51/6	
670	Portion 12	1591 days?	Fri 30/7/21	Sat 6/12/25				
671	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21				
672	Mobilization& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21				
673	Preparation& submission of MS, Temp works, associated plans & docs	52 days	Fri 20/8/21	Sun 10/10/21				
674	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21				
675	Additional GI at Portion 12 (PMI 005)	15 days	Wed 1/6/22	Wed 15/6/22				
676	Drainage pipe and manhole	379 days	Tue 2/11/21	Tue 15/11/22				
677	Excavation	364 days	Tue 2/11/21	Mon 31/10/22				
678	Pipe laying and manhole consstruction including backfilling	245 days	Wed 16/3/22	Tue 15/11/22				
679	Dwaf wall construction (Stage 1)	105 days	Wed 16/11/22	Tue 28/2/23				
680	Awaiting for revision of design by PM due to interface	97 days	Wed 1/3/23	Mon 5/6/23				
681	Staircase	717 days?	Tue 15/8/23	Thu 31/7/25				
682	Footing (S1-10)	231 days	Tue 15/8/23	Mon 1/4/24				
683	Slab & Vertical Wall (S1-10)	258 days	Mon 28/8/23	Sat 11/5/24				
	, ,							
684		70 days?	Sun 12/5/24	Sat 20/7/24				
685	Seat and railing (precast)	333 days	Mon 2/9/24	Thu 31/7/25		31/7		
686	Footing (S12-16)	141 days	Mon 13/5/24	Mon 30/9/24				
687	Footing (S11)	14 days	Mon 7/10/24	Sun 20/10/24				
688	Slab & Vertical & Wing Wall (S12-15)	123 days	Fri 31/5/24	Mon 30/9/24				
689	Slab & Vertical & Wing Wall (S11)	48 days	Mon 21/10/24	Sat 7/12/24	687			
690	Slab & Vertical & Wing Wall (S16)	33 days	Tue 15/4/25	Sat 17/5/25	-			
		-						
691	Dwaft wall (resumption) - Stage 2	286 days	Mon 4/3/24	Sat 14/12/24				
692	Confirmation of recess cover for u channel	1 day	Thu 25/4/24	Thu 25/4/24				
693	U channel & catchpit (Stage 1-S1-16)	239 days	Mon 15/7/24	Mon 10/3/25				
694	Edging (Stage1)	265 days	Mon 26/8/24	Sat 17/5/25				
695	Paving (Stage1)	91 days	Sun 18/5/25	Sat 16/8/25	694	16/8		
696	U channel & catchpit (Stage 2- Civic Plaza)	30 days	Fri 18/4/25	Mon 1/9/25	707		1/9	
697	Edging (Stage 2)	14 days	Sun 19/10/25	Sat 1/11/25	719			19/10
		-						19/10
698	Paving (Stage 2)	7 days	Sun 2/11/25	Sat 8/11/25	697			
699	U channel & catchpit (Stage 3 -Play Area)	181 days	Mon 2/12/24	Sat 31/5/25				
700	Edging (Stage 3)	72.8 days	Sun 13/4/25	Sat 9/8/25	699	9/8		
701	Paving (Stage 3)	21 days	Sun 10/8/25	Sat 30/8/25	700	10/8	90/8	
702	Soft landscaping (Stage 1)	256 days	Wed 2/10/24	Sat 14/6/25				
703	Soft landscaping (Stage 2)	5 days	Sun 2/11/25	Thu 6/11/25	697			
	· · · · · · · · · · · · · · · · · · ·			57				
	Task Critical Task	Mi	ilestone 🔷	Summa	ry 🔻	Progress		
Deed : :	Invited Decrees detect 24 July 2005					Page 11 /20		
Rased on r	evised Porgramme dated 31 July 2025					raye 11/20		



China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

1 August 2025

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works

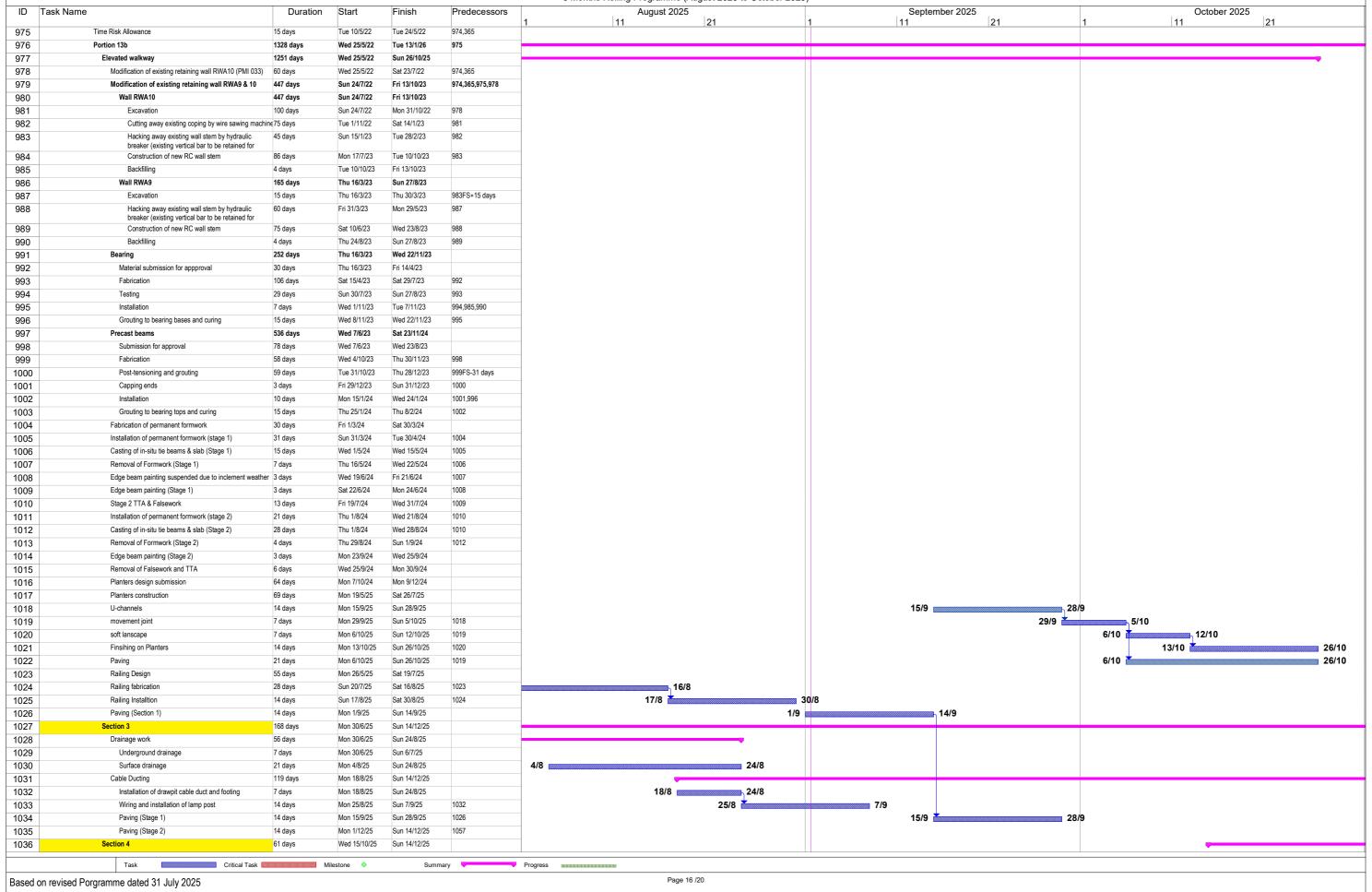


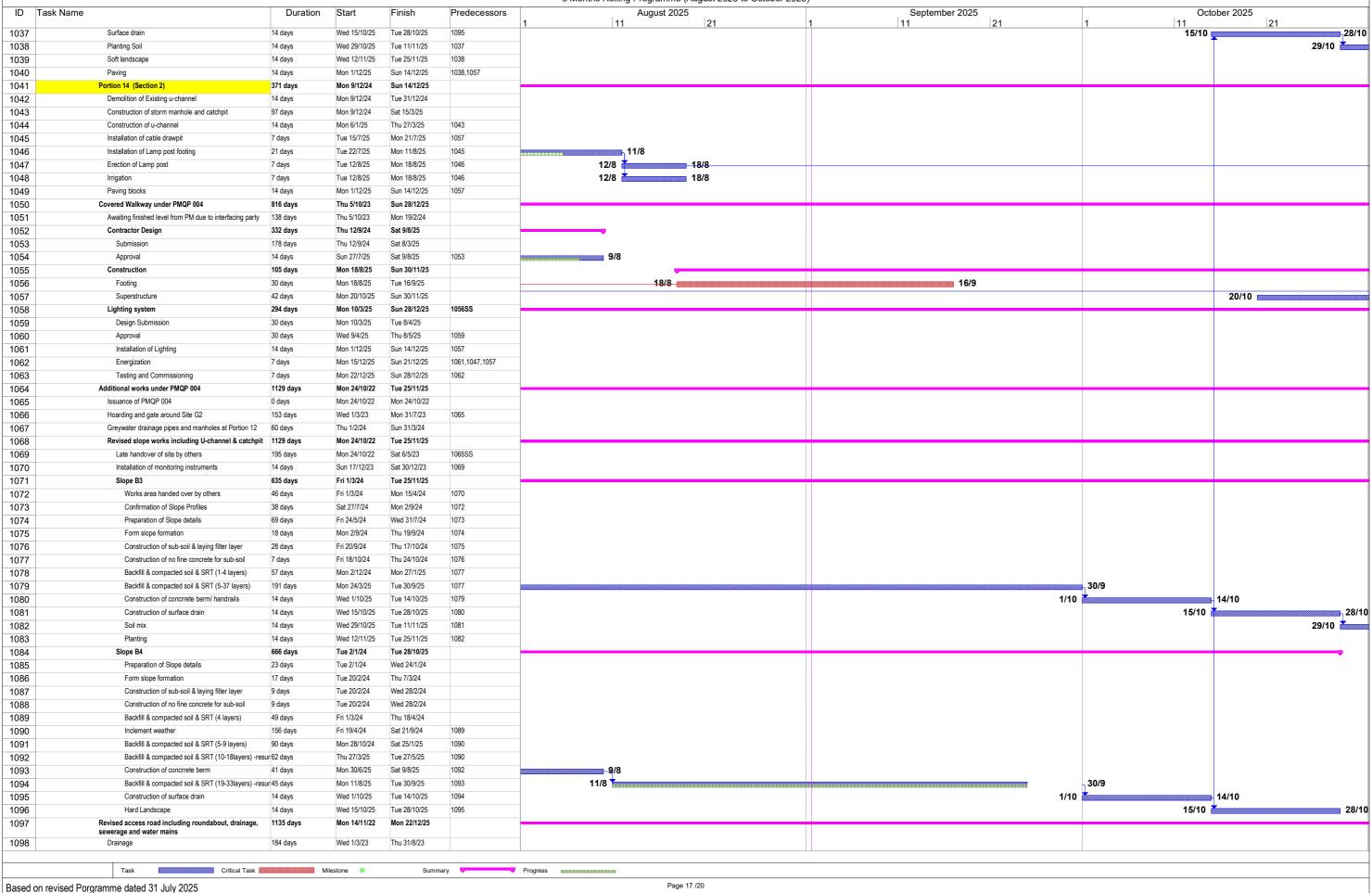
ID 1										
	ask Name	Duration	Start	Finish	Predecessors	August 2025 1 11 21	1	September 2025 11 21	1	October 2025
829	Time Risk Allowance	16 days	Thu 23/12/21	Fri 7/1/22	828	1   11   21			<b>I</b>	
830	Main access blocked by C1at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23						
831	Engineer's AIP of MS, Temp.works, plans & associated docs	21 days	Sat 8/1/22	Fri 28/1/22	829					
832	Demolition and removal of disused water pipe and sprinkler system	160 days	Sat 29/1/22	Thu 7/7/22	831					
833	Repair of cracks at drainage channel and concrete berm	884 days	Thu 1/9/22	Fri 31/1/25	832					
834	Reinstatement of joint sealant at drainage channel	899 days	Fri 16/9/22	Sun 2/3/25	832					
835	Installation of display sign for slope registration	31 days	Fri 1/8/25	Sun 31/8/25			31/8			
836	Slope Works at Feature No. 11NE-D/C947 (420m)	568 days	Sun 31/12/23	Sun 20/7/25						
837	Removal of damaged wire mesh and installation of wire mesh	30 days	Sun 31/12/23	Mon 29/1/24	830					
838	(Stage 1 at +330 mPD)  Installation of wire mesh (Stage 2 at +330mPD)	30 days	Tue 15/10/24	Wed 13/11/24						
839		7 days	Tue 18/2/25	Mon 24/2/25	874					
840	Reinstatement of concrete berm	14 days	Mon 24/3/25	Sun 6/4/25	839					
841	Installation of hand railings	7 days	Sat 21/9/24	Fri 27/9/24	840					
842	Repainting of handrailing	19 days	Wed 2/7/25	Sun 20/7/25	040					
843	Slope Works at Feature No. 11NE-D/C976 (185m)	298 days	Sat 21/9/24	Tue 15/7/25						
844		21 days	Sat 21/9/24	Fri 11/10/24	840					
845	Installation of hand railings	7 days	Sat 12/10/24	Fri 18/10/24	844					
346		7 days	Wed 2/7/25	Tue 8/7/25	011					
847		7 days	Wed 2/7/25 Wed 9/7/25	Tue 15/7/25	846					
	re-construction	. 44,0			510					
848		73 days	Thu 2/1/25	Sat 15/3/25						
849	Slope Works at Feature No. 11NE-D/C977 (300m)	409 days	Sun 26/5/24	Tue 8/7/25						
850		28 days	Sat 1/2/25	Sat 29/3/25	848					
851	Construction of concrete berm	14 days	Sat 12/10/24	Fri 25/10/24	844					
852		7 days	Sun 26/5/24	Sat 1/6/24						
853	Repair drainage channel	7 days	Wed 2/7/25	Tue 8/7/25						
354	Slope Works at Feature No. 11NE-D/C986 (190m)	432 days	Fri 3/5/24	Tue 8/7/25						
355	Filling of void with cement soil	7 days	Wed 2/7/25	Tue 8/7/25						
356	Construction of concrete berm	14 days	Fri 3/5/24	Thu 16/5/24						
857	Installation of hand railings	6 days	Fri 26/7/24	Wed 31/7/24						
858	Construction of wire mesh	55 days	Mon 20/1/25	Sat 15/3/25						
859	Slope Works at Feature No. 11NE-D/C1026 (60m)	441 days	Fri 18/8/23	Thu 31/10/24						
860	Filling of void with cement soil	30 days	Wed 1/11/23	Thu 30/11/23	000					
861		30 days	Fri 1/12/23 Wed 2/10/24	Sat 30/12/23 Thu 31/10/24	860					
862 863	Hydroseeding  Repainting of handrailing	30 days 90 days	Fri 18/8/23	Wed 15/11/23						
864	Slope Works at Feature No. 11NE-D/C987 (90m)	863 days	Fri 8/7/22	Sat 16/11/24						
865		30 days	Mon 1/1/24	Tue 30/1/24	860					
866	Installation of hand railings	7 days	Thu 8/2/24	Wed 14/2/24	865					
867	Installation of non-biodegradable erosion control mat	30 days	Fri 8/7/22	Sat 6/8/22	832					
368	Hydroseeding	16 days	Fri 1/11/24	Sat 16/11/24						
369	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23						
370		454 days	Sat 1/6/24	Thu 28/8/25			<b>,</b>			
371	Construction of lockable gate	44 days	Wed 2/7/25	Thu 14/8/25	875	14/8				
872	Removal/Repair of existing damaged hand railings	14 days	Fri 15/8/25	Thu 28/8/25	871	15/8	28/8			
873		60 days	Sat 1/6/24	Tue 30/7/24						
874		7 days	Mon 23/6/25	Sun 29/6/25						
375	Repainting of handrailing	85 days	Mon 6/1/25	Mon 31/3/25						
376	Slope Works at Feature No. 11NE-D/C979 (45m)	294 days	Fri 18/8/23	Thu 6/6/24						
377	Construction of concrete berm	14 days	Fri 17/5/24	Thu 30/5/24						
378	Installation of hand railings	7 days	Fri 31/5/24	Thu 6/6/24	877					
379	Repainting of handrailing	90 days	Fri 18/8/23	Wed 15/11/23						
380	Slope Works at Feature No. 11NE-D/C988 (370m)	21 days	Fri 31/5/24	Thu 20/6/24						
881	Construction of concrete berm	14 days	Fri 31/5/24	Thu 13/6/24	877					
82	Installation of hand railings	7 days	Fri 14/6/24	Thu 20/6/24	881					
883	Slope Works at Feature No. 11NE-D/C1003 (265m)	28 days	Fri 14/6/24	Thu 11/7/24						
884	Removal of disused pipes	21 days	Fri 14/6/24	Thu 4/7/24	881					
885	Installation of hand railings	7 days	Fri 5/7/24	Thu 11/7/24	884					
886	Slope Works at Feature No. 11NE-D/FR657 (63m)	169 days	Thu 25/1/24	Thu 11/7/24						
87	Filling of void with cement soil	7 days	Fri 5/7/24	Thu 11/7/24	884					
388	Repainting of handrailing	140 days	Thu 25/1/24	Wed 12/6/24						
889	Slope Works at Feature No. 11NE-D/C1006 (60m)	57 days	Thu 1/2/24	Thu 28/3/24						
890		28 days	Thu 1/2/24	Wed 28/2/24					1	

CEDD Contract No. ED/2020/02
Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works
3 Months Rolling Programme (August 2025 to October 2025)

						3 Months Rolling Programme (Augu	ISI 2025 to October 2025)				
ID	Task Name	Duration	Start	Finish	Predecessors	August 2025			September 2025	October 2025	
901	Installation of hand railings (~30m)	14 days	Thu 29/2/24	Wed 13/3/24	890	1   11	21 1		21	1   11   21	
891 892	Repainting of handrailing	14 days	Thu 14/3/24	Wed 13/3/24 Wed 27/3/24	891						
893	Slope Works at Feature No. 11NE-D/C980 (55m)	104 days	Thu 14/3/24	Tue 11/6/24	031						
894	Construction of concrete berm	14 days	Thu 29/2/24	Wed 13/3/24	890						
895	Installation of hand railings	7 days	Thu 14/3/24	Wed 13/3/24 Wed 20/3/24	894						
	Repainting of handrailing	90 days	Thu 14/3/24	Tue 11/6/24	054						
896	Slope Works at Feature No. 11NE-D/C174 (70m)	1	Thu 14/3/24	Wed 27/3/24							
897		14 days	Thu 14/3/24	Wed 27/3/24 Wed 27/3/24	894						
898	Reinstatement of sprayed concrete  Slope Works at Feature No. 11NE-D/C688 (167m)	14 days	Wed 31/1/24	Tue 27/2/24	034						
899		28 days	Wed 31/1/24	Tue 27/2/24							
900	Construction of tree rings x9	28 days 7 days	Thu 17/8/23	Wed 23/8/23							
901	Reinstatement of sprayed concrete	-									
902	Slope Works at Feature No. 11NE-D/C978 (350m)	1441 days	Fri 30/7/21	Wed 9/7/25							
903	Construction of concrete berm	8 days	Fri 30/7/21	Fri 6/8/21							
904	Installation of hand railings	8 days	Fri 30/7/21	Fri 6/8/21							
905	Repairing of existing steel maintenance staircase	8 days	Wed 2/7/25	Wed 9/7/25							
906	Slope Works at Feature No. 11NE-D/C1004 (375m)	14 days	Wed 2/7/25	Tue 15/7/25							
907	Repainting of handrailing	14 days	Wed 2/7/25	Tue 15/7/25							
908	Slope Works at Feature No. 11NE-D/C998 (409m)	760 days	Mon 14/2/22	Thu 14/3/24							
909	Construction of concrete maintenance staircase	19 days	Mon 14/2/22	Fri 4/3/22							
910	Handrailing	14 days	Fri 1/3/24	Thu 14/3/24							
911	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works	1991 days?	Fri 30/7/21	Sat 13/3/27							
912	Commencement of Establishment Work for Section 5A	0 days	Mon 1/9/25	Mon 1/9/25	824FF+1 day			<b>4</b> 1/9			
913	Establishment Work Duration for Section 5A	365 days	Mon 1/9/25	Sat 10/10/26	912SS-1 day		1/9				
914	Completion of Works in Section 5A	0 days	Sat 10/10/26	Sat 10/10/26	913						
915	Section of Works 5B - Portion 11	954 days	Sun 27/2/22	Mon 7/10/24	0.0						
916	Portion 11	954 days	Sun 27/2/22	Mon 7/10/24							
917	Provision of site access [212 days after starting date as per Cont		Sun 27/2/22	Sun 27/2/22							
918	Portion 9 delay (Handover site to other Contractor)	231.47 days	Tue 14/3/23	Sat 31/8/24							
919	Provision of site access and stockpile area for works at Portion 9		Mon 7/10/24	Mon 7/10/24	918						
920	Section of Works 6 - Portion 7	494 days	Tue 29/11/22	Fri 5/4/24	310						
921	Portion 7	494 days	Tue 29/11/22	Fri 5/4/24							
922	Access date [487 days after starting date as per Contract]	0 days	Tue 29/11/22	Tue 29/11/22	112SS						
923	Deferred possession (PMI 58)	90 days	Tue 29/11/22	Sun 26/2/23	922						
	Provision of site access	1	Mon 27/2/23	Sun 5/3/23	923						
924	Mobilization& Site Clearance	7 days	Mon 6/3/23	Thu 4/5/23	924						
925	Time Risk Allowance	60 days			925						
926		15 days	Fri 5/5/23	Fri 19/5/23							
927	Excavation/backfilling and compaction of material	30 days	Fri 1/12/23	Sat 30/12/23	925,926						
928	Construction of U-channels with cover and catchpits	30 days	Sun 31/12/23	Mon 29/1/24	927						
929	Road Paving work and associates street furniture	15 days	Tue 19/3/24	Fri 5/4/24							
930	Soft landscaping works	10 days	Wed 20/3/24	Fri 29/3/24							
931	Irrigation system	196 days	Sat 16/9/23	Fri 29/3/24							
932	Contractor's design	45 days	Sat 16/9/23	Mon 30/10/23	020						
933	Approval of Form MANO 046	30 days	Wed 1/11/23	Thu 30/11/23	932						
934	Approval of Form WWO 046	21 days	Fri 1/12/23	Thu 21/12/23	933						
935	Underground water supply for irrigation	10 days	Fri 22/12/23	Sun 31/12/23	934						
936	Irrigation system	10 days	Fri 1/3/24	Sun 10/3/24							
937	Modification of Manhole and catchpits  Section of Works 6A - Establishment Works for all Landscape	12 days	Mon 18/3/24	Fri 29/3/24							
938	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							
939	Commencement of Establishment Work for Section 6	0 days	Tue 29/11/22	Tue 29/11/22							
940	Completion of Works in Section 6	0 days	Fri 5/4/24	Fri 5/4/24	939						
941	Establishment Work Duration for Section 6	365 days	Fri 5/4/24	Fri 4/4/25	940						
942	Section of Works 7A - Portions 13a, 14 (DELETED)	479 days	Fri 30/7/21	Sun 20/11/22							
966	Section of Works 7AI - Establishment Works for all Landscape	365 days	Fri 30/7/21	Fri 29/7/22							
067	Softworks in Section 7A of the Works (DELETED)	0 days	Eri 20/7/04	Eri 20/7/04							
967	Commencement of Establishment Work for Section 7A  Establishment Work Duration for Section 7A	0 days	Fri 30/7/21	Fri 30/7/21							
968		365 days	Fri 30/7/21	Fri 29/7/22	069						
969	Completion of Works in Section 7A	0 days	Fri 29/7/22	Fri 29/7/22	968						
970	Section of Works 7B - Portions 13b, 15	1416 days	Sat 26/2/22	Tue 13/1/26							
971	Portion 13b & 15	1416 days	Sat 26/2/22	Tue 13/1/26	125						
972	Provision of site access [212 days after starting date as per Conf	1	Sun 27/2/22	Sat 5/3/22	135						
973	Deferred possession	52 days	Sat 26/2/22	Mon 18/4/22	135SS						
974	Mobilization& Site Clearance	21 days	Tue 19/4/22	Mon 9/5/22	973						
	Task Critical Task	Mile	estone 🔷	Summa	ary •	Progress Page 15 /20					

Based on revised Porgramme dated 31 July 2025





## CEDD Contract No. ED/2020/02 Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works 3 Months Rolling Programme (August 2025 to October 2025)

rage (Stage 1) rage (Stage 2 -connect to G2-B4 ) rete pavement at roundabout (Stage 1) rete pavement at roundabout run-in (Stage 2) ath plementation of TTA  I detection al pit C condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition for TA  I detection al pit I protection of handover of existing watermain to WSD, bject to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4  I protection, relocation of hydrant ble for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	184 days Wei 30 days Mor 61 days Thu 14 days Mor 1135 days Mor 1135 days Mor 1 day Mor 7 days Tue 60 days Mor 67 days Fri 50 days Tue 1 day Wei 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 13 days Mor 60 days Mor 14 days Tue 150 days True 160 days True 17 days True 18 days Mor 19 days True 19 days True 19 days True 11 days Mor 12 days Mor 13 days Mor 14 days True 14 days Thu 168 days Mor 114 days Thu 1068 days Mor 11068 days Mor 11 day Mor	d 1/3/23 Thu 31. d 1/3/23 Thu 31. n 13/1/25 Tue 11. u 1/6/23 Mon 31. n 26/5/25 Sun 8/6 n 14/11/22 Mon 12. n 12/12/22 Mon 12. e 13/12/22 Mon 2/. n 12/12/22 Mon 2/. n 8/7/24 Mon 30. 29/9/23 Mon 4/. e 5/12/23 Tue 23. d 24/1/24 Wed 24. u 25/1/24 Sat 27/. n 12/3/24 Fri 1/3/. e 13/24 Fri 1/3/. e 13/24 Sat 3/2 1/3/24 Fri 1/3/. e 13/24 Fri 1/3/. e 13/24 Fri 1/3/. e 13/24 Fri 1/3/. e 13/25 Sat 24/. n 18/8/25 Sat 30/. n 18/8/25 Tue 29. e 13/12/25 Wed 2/. u 23/10/25 Wed 2/. u 23/10/25 Wed 5/. u 23/10/25 Wed 5/. n 14/11/22 Thu 16. n 14/11/122 Thu 16.	1/23 1/25 1/25 1/25 1/25 1/27 1/26 1/27 1/27 1/27 1/27 1/27 1/27 1/27 1/27	August 2025 1	September 2025	October 2025 1   11   21   9/10   22/10
rage (Stage 1) rage (Stage 2 -connect to G2-B4 ) rete pavement at roundabout (Stage 1) rete pavement at roundabout run-in (Stage 2) ath plementation of TTA  I detection al pit C condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition for TA  I detection al pit I protection of handover of existing watermain to WSD, bject to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4  I protection, relocation of hydrant ble for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	184 days Wei 30 days Mor 61 days Thu 14 days Mor 1135 days Mor 1135 days Mor 1 day Mor 7 days Tue 60 days Mor 67 days Fri 50 days Tue 1 day Wei 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 13 days Mor 60 days Mor 14 days Tue 150 days True 160 days True 17 days True 18 days Mor 19 days True 19 days True 19 days True 11 days Mor 12 days Mor 13 days Mor 14 days True 14 days Thu 168 days Mor 114 days Thu 1068 days Mor 11068 days Mor 11 day Mor	d 1/3/23 Thu 31.  n 13/1/25 Tue 11.  u 1/6/23 Mon 31.  n 12/5/25 Sun 8/6  n 14/11/22 Mon 12.  n 12/12/22 Mon 12.  e 13/12/22 Mon 2/.  n 12/12/22 Mon 2/.  n 12/12/22 Mon 30.  e 20/12/23 Tue 23.  d 24/1/24 Wed 2/.  u 25/1/24 Sat 27/.  n 28/1/24 Sat 3/.  1/3/24 Fri 1/3/.  e 1/3/24 Mon 16.  n 12/3/25 Sat 24/.  n 19/5/25 Sat 28/.  n 17/3/25 Sat 12/.  n 18/8/25 Sat 30/.  n 25/11/24 Thu 23.  n 30/6/25 Tue 29.  e 9/12/25 Wed 2/.  u 23/10/25 Wed 2/.  u 23/10/25 Wed 2/.  u 23/10/25 Wed 5/.  n 14/11/22 Thu 16.  n 14/11/22 Thu 16.	1/23			9/10
rage (Stage 1) rage (Stage 2 -connect to G2-B4 ) rete pavement at roundabout (Stage 1) rete pavement at roundabout run-in (Stage 2) ath plementation of TTA  I detection al pit C condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit I for condition for TA  I detection al pit I protection of handover of existing watermain to WSD, bject to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4  I protection, relocation of hydrant ble for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	184 days Wei 30 days Mor 61 days Thu 14 days Mor 1135 days Mor 1135 days Mor 1 day Mor 7 days Tue 60 days Mor 67 days Fri 50 days Tue 1 day Wei 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 13 days Mor 60 days Mor 14 days Tue 150 days True 160 days True 17 days True 18 days Mor 19 days True 19 days True 19 days True 11 days Mor 12 days Mor 13 days Mor 14 days True 14 days Thu 168 days Mor 114 days Thu 1068 days Mor 11068 days Mor 11 day Mor	d 1/3/23 Thu 31.  n 13/1/25 Tue 11.  u 1/6/23 Mon 31.  n 12/5/25 Sun 8/6  n 14/11/22 Mon 12.  n 12/12/22 Mon 12.  e 13/12/22 Mon 2/.  n 12/12/22 Mon 2/.  n 12/12/22 Mon 30.  e 20/12/23 Tue 23.  d 24/1/24 Wed 2/.  u 25/1/24 Sat 27/.  n 28/1/24 Sat 3/.  1/3/24 Fri 1/3/.  e 1/3/24 Mon 16.  n 12/3/25 Sat 24/.  n 19/5/25 Sat 28/.  n 17/3/25 Sat 12/.  n 18/8/25 Sat 30/.  n 25/11/24 Thu 23.  n 30/6/25 Tue 29.  e 9/12/25 Wed 2/.  u 23/10/25 Wed 2/.  u 23/10/25 Wed 2/.  u 23/10/25 Wed 5/.  n 14/11/22 Thu 16.  n 14/11/22 Thu 16.	1/23	18/8	/8	
rage (Stage 2 -connect to G2-B4 ) rete pavement at roundabout (Stage 1) rete pavement at roundabout (Stage 1) rete pavement at roundabout run-in (Stage 2) atth plementation of TTA  I detection al pit ID condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit Impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) Interface issue atermain along new footpath at Slope B4 I protection, relocation of hydrant ble for relocation of lamp post election of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	30 days	n 13/1/25 Tue 11.  u 1/6/23 Mon 31 n 26/5/25 Sun 8/6 n 14/11/22 Mon 22 n 12/12/22 Mon 12 e 13/12/22 Mon 2/ e 20/12/22 Mon 30 29/9/23 Mon 4/ e 5/12/23 Tue 23 d 24/1/24 Wed 24 u 25/1/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ e 12/3/24 Mon 16 n 14/13/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29 e 9/12/25 Mon 22 u 23/10/25 Wed 22 u 23/10/25 Wed 22 u 23/10/25 Wed 22 u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Thu 16 n 14/11/22 Mon 8/	12/25	18/8	/8	
rete pavement at roundabout (Stage 1) rete pavement at roundabout run-in (Stage 2)  atth plementation of TTA  I detection al pit C condition letter and WSD's approval range design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit runged design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit rungletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) Interface issue atermain along new footpath at Slope B4 I protection, relocation of hydrant blole for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 flecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	61 days Thu 14 days Mor 1135 days Mor 1 day Mor 7 days Tue 160 days Mor 60 days Tue 160 days Tue 160 days Tue 17 days Tue 18 days Tue 199 days Thu 199 days Sat 199 days Mor 13 days Mor 13 days Mor 13 days Mor 14 days Mor 14 days Tue 14 days Thu 15 days Mor 160 days Mor 17 days Mor 18 days Mor 19 days Mor 19 days Mor 19 days Mor 19 days Mor 10 days Mor 11 days Mor 11 days Mor 11 days Thu 11 days Mor	u 1/6/23 Mon 31 n 26/5/25 Sun 8/6 n 14/11/22 Mon 22 n 12/12/22 Mon 12 e 13/12/22 Mon 12 e 13/12/22 Mon 2/ n 8/7/24 Mon 30 29/9/23 Mon 4/ e 5/12/23 Tue 23 d 24/1/24 Wed 24 u 25/1/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ e 1/3/25 Sat 24/ n 18/8/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29 e 9/12/25 Mon 22 u 23/10/25 Wed 2/ u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Thu 16 n 14/11/22 Mon 8/	7/23 25 1119 12/25 112/22 1065 12/22 1106 223 1106 224 1109 1/24 1110 224 1111 24 1111 24 1113 2/24 1119 2/25 1101 2/25 1118 2/25 112/25 1153 10/25 1123	18/8	/8	
rete pavement at roundabout run-in (Stage 2) ath plementation of TTA  J detection al pit TD condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA  J detection al pit I detection al pit J detection al pit J detection al pit J detection al pit J protection of handover of existing watermain to WSD, object to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4 J protection, relocation of hydrant blue for relocation of lamp post J decation of Lamp post (Subject o HyD)  tallation of Site UU lead in (by others) - Stage 1 J elecom, CLP, gas) tallation of site UU lead in (by others) - Stage 2 J elecom, CLP, gas) tallation of site UU lead in (by others) - Stage 2 J elecom, CLP, gas) tallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	14 days Mor 1135 days Mor 1135 days Mor 1 day Mor 7 days Tue 60 days Mor 67 days Fri 50 days Tue 1 day Wer 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 13 days Mor 14 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 1068 days Mor 1 day Mor 1 day Mor 1 day Mor 1 days Mor	n 26/5/25 Sun 8/6 n 14/11/22 Mon 22 n 12/12/22 Mon 12 a 13/12/22 Mon 12 a 20/12/22 Mon 2/ n 8/7/24 Mon 30 29/9/23 Tue 23 ad 24/1/24 Wed 24 a 25/1/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ a 12/3/25 Sat 24/ n 19/5/25 Sat 28/ n 11/3/25 Sat 28/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29 a 9/12/25 Mon 22 a 23/10/25 Wed 5/ a 14/11/22 Thu 16 n 14/11/22 Thu 16 n 14/11/22 Mon 8/	25 1119  12/25 1065  12/22 1065  12/22 1105  23 1106  10/24 1109  1/24 1109  1/24 1110  1/24 1111  1/4 1112  1/4 1113  1/25 1125  1/25 1118  1/25 1125 1153  1/26 1125 1123	18/8	/8	
ath plementation of TTA  J detection al pit TD condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA  J detection al pit al p	1135 days         Mor           1 day         Mor           7 days         Tue           14 days         Mor           60 days         Mor           67 days         Tue           50 days         Tue           1 day         Wer           3 days         Thu           7 days         Sun           0 days         Fri           199 days         Sat           62 days         Mor           41 days         Mor           43 days         Mor           60 days         Mor           30 days         Mor           14 days         Tue           14 days         Thu           14 days         Thu           1068 days         Mor           1 day         Mor	n 14/11/22 Mon 22 n 12/12/22 Mon 12 n 12/12/22 Mon 12 n 12/12/22 Mon 19 n 18/1/24 Mon 30 29/9/23 Mon 4/ p 5/12/23 Tue 23 n 24/1/24 Wed 24 n 25/12/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ n 12/3/25 Sat 28/ n 17/3/25 Sat 28/ n 17/3/25 Sat 28/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29 p 9/12/25 Mon 22 n 2/10/25 Wed 22 n 2/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Thu 16 n 14/11/22 Mon 8/	12/25	18/8	/8	
plementation of TTA  J detection al pit  To condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA  J detection al pit al pit al pit ampletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4 J protection, relocation of hydrant bible for relocation of lamp post docation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 selecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	1 day Mor 7 days Tue 14 days Tue 60 days Mor 67 days Tue 60 days Tue 50 days Tue 1 day Wer 3 days Thu 7 days Sun 0 days Fri 2 days Mor 13 days Mor 13 days Mor 13 days Mor 14 days Mor 14 days Tue 14 days Thu 14 days Thu 1068 days Mor 1068 days Mor 11068 days Mor 1 days Mor 11068 days Mor 1 days Mor 1 days Thu 1 days Thu 1068 days Mor 1 day Mor 1 days Mor 1 days Mor 1 days Mor 1 day Mor 1 days Mor 1 day Mor	n 12/12/22 Mon 12 a 13/12/22 Mon 18 a 20/12/22 Mon 18 a 20/12/24 Mon 2/ n 8/7/24 Mon 30 29/9/23 Mon 4/ a 5/12/23 Tue 23 ad 24/1/24 Wed 2/ a 25/12/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ a 28/1/25 Sat 24/ n 19/5/25 Sat 24/ n 18/8/25 Sat 30/ n 18/8/25 Tue 29 a 9/12/25 Mon 22 a 9/12/25 Wed 2/ a 9/10/25 Wed 2/ a 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	12/22 1065 12/22 1105 23 1106 23 1106 24 1109 1/24 1109 1/24 1110 24 1111 24 1113 25 125 1101 25 1118 27 1118 28 1125 1118 29 125 1101 29 1125 1118 20 1125 1125 1125	18/8	/8	
J detection al pit TO condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA J detection al pit Impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) Interface issue atermain along new footpath at Slope B4 J protection, relocation of hydrant blie for relocation of lamp post location of Lamp post (Subject o HyD) Italiation of site UU lead in (by others) - Stage 1 Italiation of site UU lead in (by others) - Stage 2 Italiation of site UU lead in (by others) - Stage 2 Italiation of site UU lead in (by others) - Stage 2 Italiation of site UU lead in (by others) - Stage 2 Italiation of site UU lead in (by others) - Stage 2 Italiation of site UU lead in (by others) - Stage 3 (CLP) W Lamp Post (Highways) Ving Irk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	7 days Tue 14 days Tue 60 days Mor 67 days Fri 2 50 days Tue 1 day Wet 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 13 days Mor 14 days Tue 14 days Thu 14 days Thu 14 days Mor 168 days Mor 1068 days Mor 1 day Mor	a 13/12/22 Mon 19 a 20/12/22 Mon 2/ n 8/7/24 Mon 3/ 29/9/23 Mon 4/ a 5/12/23 Tue 23, d 24/1/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ a 2/3/25 Sat 24/ n 19/5/25 Sat 28/ n 18/8/25 Sat 30/ n 28/11/24 Thu 23, n 30/6/25 Tue 29, a 9/12/25 Wed 2/ u 9/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	12/22 1105 23 1106 23 1106 23 1106 24 1109 24 1110 24 1111 24 1112 4 1113 25 125 1101 25 1118 27 1118 28 1125 1153 29 1125 1125 29 11025 1123	18/8	/8	
al pit  To condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit Impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) Interface issue atermain along new footpath at Slope B4 I protection, relocation of hydrant blie for relocation of lamp post location of Lamp post (Subject o HyD) Italiation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) Italiation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) Italiation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) Italiation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) Italiation of site UU lead in (by others) - Stage 3 (CLP) Italiation of site U	14 days Tue 60 days Mor 67 days Fri 50 days Tue 1 day Wer 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 14 days Tue 14 days Tue 14 days Thu 14 days Thu 168 days Mor 1 day Mor 1 day Mor	a 20/12/22 Mon 2/ n 8/7/24 Mon 3/ 29/9/23 Mon 4/ e 5/12/23 Tue 23, d 24/11/24 Wed 24 g 25/11/24 Sat 27/ n 28/1/24 Fri 1/3/ 22/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Mon 22 g 2/10/25 Wed 2/ g 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	23 1106  2724  2727  2728  2729  2729  2729  2729  2729  2730  274  274  274  275  275  275  275  275	18/8	/8	
To condition letter and WSD's approval ange design by Highways Department Lighting A design review and revise plementation of TTA  I detection al pit Impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) I Interface issue atermain along new footpath at Slope B4 I protection, relocation of hydrant ble for relocation of lamp post location of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	60 days Mor  67 days Fri 2  50 days Tue  1 day Wer  3 days Thu  7 days Sun  0 days Fri  199 days Sat  62 days Mor  41 days Mor  13 days Mor  14 days Mor  14 days Tue  14 days Thu  14 days Thu  168 days Mor  1068 days Mor  11 day Mor  11 day Mor  11 days Mor  11 days Thu  11 days Mor  12 days Mor  13 days Mor  14 days Mor  15 days Mor  16 days Mor  17 days Mor  18 days Mor  19 days Mor  19 days Mor  10 days Mor  11 days Mor  11 days Mor  11 day Mor  11 days Mor  11 days Mor  11 day Mor  11 day Mor  11 day  12 days Mor  13 days Mor  14 days Mor  15 days Mor  16 days Mor  17 days Mor  18 days Mor  18 days Mor  19 days Mor  1	n 8/7/24 Mon 30 29/9/23 Mon 4/ e 5/12/23 Tue 23 dd 24/1/24 Wed 24 u 25/11/24 Sat 27/ n 28/1/24 Fri 1/3/ e 2/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Wed 22, u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	9/24 9/24 1108 1/24 1109 11/24 1110 124 1111 124 1111 125 125 1101 125 1118 125 125 11025 11025 1123 10025	18/8	/8	
ange design by Highways Department Lighting A design review and revise plementation of TTA  J detection al pit impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) I Interface issue atermain along new footpath at Slope B4 J protection, relocation of hydrant ble for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 1 stallation of site UU lead in (by others) - Stage 1 stallation of site UU lead in (by others) - Stage 2 stallation of site UU lead in (by others) - Stage 2 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead in (by others) - Stage 3 stallation of site UU lead	67 days Fri 2 50 days Tue 1 day Wei 3 days Thu 7 days Sun 0 days Fri 1 199 days Sat 62 days Mor 41 days Mor 13 days Mor 13 days Mor 14 days Tue 14 days Thu 14 days Thu 14 days Mor 1568 days Mor 1618 days Mor 1619 Mor 1700 Mor 1819 Mor	29/9/23 Mon 4/ e 5/12/23 Tue 23, d 24/1/24 Wed 24 u 25/11/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ e 2/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Wed 2/ u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	2/23 1108  1/24 1109  1/24 1110  1/24 1111  1/24 1111  1/24 1111  1/24 1111  1/25 1111  1/25 11118  1/25 1125 1153  1/25 1125 1123	18/8	/8	
A design review and revise plementation of TTA  J detection al pit impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) 2 Interface issue latermain along new footpath at Slope B4 J protection, relocation of hydrant ble for relocation of lamp post flocation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	50 days Tue 1 day Wei 3 days Thu 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 13 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 1 day Mor 1 days Mor 1 days Mor 1 days Thu 1 days Mor	a 5/12/23 Tue 23, d 24/1/24 Wed 24 u 25/1/24 Sat 27/ n 28/1/24 Sat 3/2 l/3/24 Fri 1/3/ a 2/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 24/ n 19/5/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, a 9/12/25 Wed 22, u 2/3/10/25 Wed 5/ n 14/11/22 Mon 8/	24	18/8	/8	
plementation of TTA  J detection  al pit  Impletion of handover of existing watermain to WSD, object to C1(Since commencement of G2)  Interface issue  Interfac	1 day Wei 3 days Thu 7 days Sun 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 60 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 1068 days Mor 1010 days Mor 1011 days Mor 1012 days Mor 1013 days Mor 1014 days Mor 1015 days Mor 1016 days Mor 1016 days Mor 1016 days Mor	d 24/1/24 Wed 24  u 25/1/24 Sat 27/ n 28/1/24 Sat 3/2  1/3/24 Fri 1/3/  u 24/3/25 Sat 24/ n 19/5/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 30/ n 25/11/24 Thu 23/ n 30/6/25 Tue 29/ u 9/10/25 Wed 22/ u 23/10/25 Wed 5/ n 14/11/22 Mon 8/	11/24 1110 12/4 1111 14 1112 14 1113 17 1114 17 1114 17 1114 17 1118 17 1118 17 1118 17 1118 17 1118 17 118 17 118 17 118 17 118 17 118 17 118 17 118 17 118 17 118 17 118 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	18/8	/8	
J detection al pit mpletion of handover of existing watermain to WSD, object to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4 J protection, relocation of hydrant ble for relocation of lamp post docation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	3 days         Thu           7 days         Sun           7 days         Sun           0 days         Fri           199 days         Sat           62 days         Mor           41 days         Mor           13 days         Mor           60 days         Mor           30 days         Mor           14 days         Tue           14 days         Thu           14 days         Mor           1068 days         Mor           1 day         Mor	u 25/1/24 Sat 27/ n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ 1/3/24 Fri 1/3/ 1/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, u 9/12/25 Wed 22, u 9/10/25 Wed 5/ n 14/11/22 Mon 8/	124 1111 112 1112 1113 1114 1114 1114 11	18/8	/8	
al pit  mpletion of handover of existing watermain to WSD, bject to C1(Since commencement of G2)  2 Interface issue atermain along new footpath at Slope B4  J protection, relocation of hydrant ble for relocation of lamp post docation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving  rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	7 days Sun 7 days Sun 0 days Fri 199 days Sat 62 days Mor 41 days Mor 13 days Mor 60 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 108 days Mor 1108 days Mor 10108 Mor 10108 Mor 10108 Mor 10108 Mor 10108 Mor	n 28/1/24 Sat 3/2 1/3/24 Fri 1/3/ 1/3/24 Fri 1/3/ 1/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29, 29/12/25 Mon 22 u 9/12/25 Wed 22 u 9/13/25 Wed 5/ n 14/11/22 Thu 16	14 1112 4 1113 10/24 1114 125 125 125 1101 125 1118 1/25 125 11025 1123 10/25 1123	18/8	/8	
impletion of handover of existing watermain to WSD, bject to C1(Since commencement of G2)  2 Interface issue atermain along new footpath at Slope B4  J protection, relocation of hydrant ble for relocation of lamp post docation of Lamp post (Subject o HyD)  stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving  rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	0 days Fri 199 days Sat 62 days Mor 41 days Mor 60 days Mor 30 days Mor 14 days Tue 14 days Thu 14 days Thu 1068 days Mor 1068 days Mor Mor 1014 days Thu 10168 days Mor	1/3/24 Fri 1/3/ 1/3/24 Mon 16 n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23 n 30/6/25 Tue 29, 2 9/12/25 Wed 22 u 9/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	4 1113 3)(24 1114 (25 125 125 1101 (25 1118 125 1118 125 1118 125 11225 1153 10)(25 1123 10)(25 1123 10)(25	18/8	/8	
bject to C1(Since commencement of G2) 2 Interface issue atermain along new footpath at Slope B4  J protection, relocation of hydrant ble for relocation of lamp post location of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom, CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	199 days Sat 62 days Mor 41 days Mor 13 days Mor 60 days Mor 14 days Tue 14 days Thu 14 days Thu 1068 days Mor 10108 days Mor	1 2/3/24 Mon 16 In 24/3/25 Sat 24/ In 19/5/25 Sat 28/ In 17/3/25 Sat 12/ In 18/8/25 Sat 30/ In 25/11/24 Thu 23 In 30/6/25 Tue 29 In 18/8/25 Mon 22 In 18/9/25 Wed 22 In 23/10/25 Wed 5/ In 14/11/22 Mon 8/	9/24 1114 125 125 125 125 1101 125 1118 1/25 1/25 112/25 1153 10/25 1123 10/25	18/8	/8	
2 Interface issue atermain along new footpath at Slope B4  J protection, relocation of hydrant ble for relocation of lamp post location of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	62 days Mor 41 days Mor 27 days Mor 13 days Mor 60 days Mor 30 days Tue 14 days Thu 14 days Thu 14 days Mor 1068 days Mor 1010 days Mor	n 24/3/25 Sat 24/ n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23/ n 30/6/25 Tue 29/ 29/10/25 Wed 22/ u 23/10/25 Wed 5/ n 14/11/22 Mon 8/	25	18/8	/8	
atermain along new footpath at Slope B4  J protection, relocation of hydrant ble for relocation of lamp post docation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	62 days Mor 41 days Mor 27 days Mor 13 days Mor 60 days Mor 30 days Tue 14 days Thu 14 days Thu 14 days Mor 1068 days Mor 1010 days Mor	n 19/5/25 Sat 28/ n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23. n 30/6/25 Tue 29. e 9/12/25 Mon 22 g 9/10/25 Wed 22 g 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	225	18/8	/8	
J protection, relocation of hydrant ble for relocation of lamp post docation of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	41 days Mor 27 days Mor 13 days Mor 60 days Mor 30 days Tue 14 days Thu 14 days Thu 168 days Mor 421 days Mor	n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Mon 22 g 9/10/25 Wed 22 g 23/10/25 Wed 5/ n 14/11/22 Mon 8/	25 1101 125 1118 /25 /25 125 1225 1153 10/25 1123 10/25	18/8	/8	
ble for relocation of lamp post location of Lamp post (Subject o HyD) stallation of site UU lead in (by others) - Stage 1 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) stallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	27 days         Mor           13 days         Mor           60 days         Mor           30 days         Mor           14 days         Tue           14 days         Thu           14 days         Thu           168 days         Mor           421 days         Mor           1 day         Mor	n 17/3/25 Sat 12/ n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Mon 22 g 9/10/25 Wed 22 g 23/10/25 Wed 5/ n 14/11/22 Mon 8/	25 1101 125 1118 /25 /25 125 1225 1153 10/25 1123 10/25	18/8	/8	
location of Lamp post (Subject o HyD)  stallation of site UU lead in (by others) - Stage 1 selecom ,CLP, gas)  stallation of site UU lead in (by others) - Stage 2 selecom ,CLP, gas)  stallation of site UU lead in (by others) - Stage 3 (CLP) stallation of site UU lead in (by others) - Stage 3 (CLP) sw Lamp Post (Highways) ving  rk Lighting system (DOS)  Application for electricity power supply Design Change of Layout (PMI-085)  Park Lighting Design	13 days Mor 60 days Mor 30 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 421 days Mor 1 day Mor	n 18/8/25 Sat 30/ n 25/11/24 Thu 23, n 30/6/25 Tue 29, e 9/12/25 Mon 22 u 9/10/25 Wed 22 u 23/10/25 Wed 5/ n 14/11/22 Mon 8/	1118	18/8	/8	
tallation of site UU lead in (by others) - Stage 1 elecom ,CLP, gas) tallation of site UU lead in (by others) - Stage 2 elecom ,CLP, gas) tallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	60 days Mor 30 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 421 days Mor 1 day Mor	n 25/11/24 Thu 23 n 30/6/25 Tue 29, e 9/12/25 Mon 22 u 9/10/25 Wed 22 u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	/25 /25 12/25 11/25 11/25 11/25 11/25 11/25			
elecom ,CLP, gas)  tallation of site UU lead in (by others) - Stage 2  elecom ,CLP, gas)  tallation of site UU lead in (by others) - Stage 3 (CLP)  w Lamp Post (Highways)  ving  rk Lighting system (DOS)  Application for electricity power supply  Design Change of Layout (PMI-085)  Park Lighting Design	30 days Mor 14 days Tue 14 days Thu 14 days Thu 168 days Mor 421 days Mor 1 day Mor	n 30/6/25 Tue 29, e 9/12/25 Mon 22 u 9/10/25 Wed 22 u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	//25 1153 10/25 1153 10/25 1123 10/25 1123			
elecom ,CLP, gas)  stallation of site UU lead in (by others) - Stage 3 (CLP)  w Lamp Post (Highways)  ving  rk Lighting system (DOS)  Application for electricity power supply  Design Change of Layout (PMI-085)  Park Lighting Design	14 days Tue 14 days Thu 14 days Thu 14 days Thu 1688 days Moi 421 days Mor 1 day Mor	e 9/12/25 Mon 22 u 9/10/25 Wed 22 u 23/10/25 Wed 5/ u 123/10/25 Thu 16 n 14/11/22 Mon 8/	12/25 1153 10/25 1123 10/25 1123			
tallation of site UU lead in (by others) - Stage 3 (CLP) w Lamp Post (Highways) wing rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	14 days       Thu         14 days       Thu         1068 days       Moi         421 days       Mor         1 day       Mor	u 9/10/25 Wed 22 u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	10/25 11/25 1123			
ving rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	14 days         Thu           1068 days         Moi           421 days         Mor           1 day         Mor	u 23/10/25 Wed 5/ n 14/11/22 Thu 16 n 14/11/22 Mon 8/	1/25 1123 10/25			
rk Lighting system (DOS) Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	1068 days         Mon           421 days         Mor           1 day         Mor	n 14/11/22 Thu 16 n 14/11/22 Mon 8/	0/25			
Application for electricity power supply Design Change of Layout (PMI-085) Park Lighting Design	421 days Mor 1 day Mor	n 14/11/22 Mon 8/				23/10
Design Change of Layout (PMI-085) Park Lighting Design	1 day Mor		04 00000			
Park Lighting Design	•	0/4/04	24 622SS			
	610 days	n 8/1/24 Mon 8/	24 623SS			
LCSD's approval of lighting system	612 days Mor	n 14/11/22 Wed 17	7/24 624SS			
	30 days Thu	u 18/7/24 Fri 16/8	24 625SS			
Installation including ducting and draw pit	30 days Sun	n 27/7/25 Mon 25	3/25 1129,1017	25/8		
		e 26/8/25 Wed 24		26/8	չ 24/9	
Energization	15 days Thu	u 25/9/25 Thu 9/1	/25 1131		25/9	9/10
Testing and Commissioning	7 days Fri	10/10/25 Thu 16	0/25 1132			10/10 16/10
15- Sewerage Works	588 days Moi	n 3/6/24 Tue 13	/26			
pile wall	514 days Moi	n 3/6/24 Wed 29	10/25			
	141 days Mor	n 3/6/24 Mon 21	10/24			
ndition	O davis	- 04/40/04 T 00	0/04			
	-					
	•					
	•					
, , , , , , , , , , , , , , , , , , , ,	-					
	•					20112
	-					23/10 🛣
	-					
						2012
						30/10
	-					1/
* *						
	-					
	· ·					
•	-					
-	-					
	-					
	40 davs Mor	11 3/3/25 Wed 16	4/20			
mpple	le wall p Work re-design due to unforeseen ground lition amentation of TTA Detection pit Plie Installation erage manhole (G2-B4) and HDPE pipe ffill work reinstatement ermain pipe works (uphill of On Kin Road) tain downhill of On Kin Road amentation of TTA Detection pit ermain pipe works o connection fill work reinstatement system tor's design al of WWO542 al of Form WWO 046 round water supply for irrigation	No.   No.	Section   Sect	Sewall   S14 days   Mon 3/6/24   Wed 29/10/25	Example   State   St	to valid — val

						3 Months Rolling Programme (August 2025 to O	ctober 2025)			
ID Ta	ask Name	Duration	Start	Finish	Predecessors	August 2025		mber 2025		October 2025
1160	Section of Works 7BI - Establishment Works for all Landscape	1991 days?	Fri 30/7/21	Sat 13/3/27		1 11 21	1 11	21	1	11 21
	Softworks in Section 7B of the Works									
1161	Commencement of Establishment Work for Section 7B	0 days	Tue 13/1/26	Tue 13/1/26	976					
1162	Establishment Work Duration for Section 7B	365 days	Tue 13/1/26	Sat 13/3/27	1161SS-1 day					
1163	Completion of Works in Section 7B  Section of Works 8 - Portion 16	0 days	Sat 13/3/27	Sat 13/3/27 Sat 23/12/23	1162					
1164	Portion 16	556 days 556 days	Thu 16/6/22 Thu 16/6/22	Sat 23/12/23 Sat 23/12/23						
1165 1166	Site access date [321 days after starting date as per Contract		Thu 16/6/22	Thu 16/6/22	151SS					
1167		24 days	Thu 16/6/22	Sat 9/7/22	1166					
1168	Late handover of site by others	350 days	Thu 16/6/22	Wed 31/5/23	1167					
1169		4 days	Thu 1/6/23	Sun 4/6/23	1168					
1170	Removal of existing rock slope	45 days	Mon 5/6/23	Wed 19/7/23	1169					
1171	Construction of fill slope A7	90 days	Thu 20/7/23	Tue 17/10/23	1170					
1172	Construction of fill slope A8	80 days	Sun 30/7/23	Tue 17/10/23	1171FF					
1173	Construction of slope surface drainage system	45 days	Wed 18/10/23	Fri 1/12/23	1171					
1174	Hydroseeding	22 days	Sat 2/12/23	Sat 23/12/23	1173					
1175		30 days	Fri 24/11/23	Sat 23/12/23	1173FF					
1176		78 days	Mon 2/10/23	Mon 18/12/23						
1177	Section of Works 8A - Establishment Works for all Landscape	-	Fri 27/9/24	Fri 26/9/25						
1178	Softworks in Section 8 of the Works  Commencement of Establishment Work for Section 8	0 days	Fri 27/9/24	Fri 27/9/24	1179SS					
1179	Establishment Work Duration for Section 8	365 days	Fri 27/9/24	Fri 26/9/25	1174				26/9	
1180		0 days	Fri 26/9/25	Fri 26/9/25	1179FF			Δ	26/9	
1181	Section of Works 9 - Portion 17	1494 days	Fri 30/7/21	Sun 31/8/25				•	,	
1182	Portion 17	1494 days	Fri 30/7/21	Sun 31/8/25			<u>_</u>			
1183	Provision of site access [212 days after starting date as per C		Sun 27/2/22	Sun 27/2/22	162SS					
1184		30 days	Sun 27/2/22	Mon 28/3/22	1183					
1185	Slope inspection & assessment work & Tree Survey	23 days	Tue 29/3/22	Wed 20/4/22	1184					
1186	Mobilization, access & Site Clearance	15 days	Thu 21/4/22	Thu 5/5/22	1185					
1187	Time Risk Allowance	14 days	Fri 6/5/22	Thu 19/5/22	1185,1186					
1188	Access blocked by C1 at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23						
1189	Demolition and removal of disused water pipe and sprinkler s	y50 days	Fri 20/5/22	Fri 8/7/22	1187					
1190	Repair of cracks at drainage channel and concrete berm	777 days	Sat 14/1/23	Fri 28/2/25	1189					
1191	Reinstatemnt of joint sealant at drainage channel	776 days	Sun 15/1/23	Fri 28/2/25						
1192	Installation of display sign for slope registration	60 days	Tue 31/12/24	Fri 28/2/25						
1193	Reinstatement of eroded soil berm due to inclement weather	128 days	Thu 7/9/23	Fri 12/1/24						
1194	(PMI 117)  Slope Works at Feature No. 11NE-D/C948 (310m)	352 days	Sun 31/12/23	Mon 16/12/24						
1195	Construction of concrete berm	14 days	Thu 25/7/24	Wed 7/8/24	1247					
1196	Repainting of existing steel maintenance staircase	7 days	Tue 10/12/24	Mon 16/12/24	1195					
1197	Construction of wire mesh	352 days	Sun 31/12/23	Mon 16/12/24	1188					
1198	Slope Works at Feature No. 11NE-D/C949 (603m)	1154 days	Fri 30/7/21	Wed 25/9/24						
1199	Construction of concrete berm	14 days	Fri 30/7/21	Thu 12/8/21						
1200	Installation of hand railings	7 days	Fri 13/8/21	Thu 19/8/21	1199					
1201	Construction of wire mesh	30 days	Tue 27/8/24	Wed 25/9/24	1197,1200					
1202	Slope Works at Feature No. 11NE-D/C981 (390m)	1170 days	Fri 13/8/21	Fri 25/10/24						
1203	Construction of concrete berm	14 days	Fri 13/8/21	Thu 26/8/21	1199					
1204		7 days	Fri 27/8/21	Thu 2/9/21	1203					
1205		30 days	Thu 26/9/24	Fri 25/10/24	1201					
1206		1186 days	Fri 27/8/21	Sun 24/11/24						
1207		30 days	Sat 26/10/24	Sun 24/11/24	1205					
1208	Construction of concrete berm	14 days	Fri 27/8/21	Thu 9/9/21	1203					
1209	<del>-</del>	7 days	Fri 10/9/21	Thu 16/9/21	1208					
1210	Construction of concrete maintenance staircase with hand	· ·	Mon 19/2/24	Fri 22/3/24 Sat 14/12/24						
1211		326 days	Wed 24/1/24 Mon 25/11/24	Sat 14/12/24 Sat 14/12/24						
1212 1213		20 days 14 days	Mon 25/11/24 Wed 24/1/24	Sat 14/12/24 Tue 6/2/24						
1213		7 days	Wed 7/2/24	Tue 0/2/24 Tue 13/2/24						
1214	<u> </u>	14 days	Thu 28/3/24	Wed 10/4/24						
1215		14 days	Wed 16/10/24	Tue 29/10/24						
1217	Reinstatement of sprayed concrete	14 days	Wed 16/10/24	Tue 29/10/24						
1217	Slope Works at Feature No. 11NE-B/C225 (60m)	183 days	Wed 30/10/24	Wed 30/4/25						
1219		14 days	Wed 30/10/24	Tue 12/11/24	1217					
1220	Reinstatement of damaged granite stone planter wall and	•	Mon 17/2/25	Wed 30/4/25						
	granoite stone facing									
	Task Critical Task	Mile	estone 🔷	Summa	ry 🔻	Progress				
<b>D</b> 1	revised Porgramme dated 31 July 2025	·	-	- Canalia	• •	Page 19 /20				

China International Water & Electric Corp. 1 August 2025

CEDD Contract No. ED/2020/02

Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works

2 Months Polling Programme (August 2025 to October 2025)

						3 Months Rolling Programme (August 2025 to October 202	5)	
ID	Task Name	Duration	Start	Finish	Predecessors	August 2025	September 2025	October 2025
1221	Make good and provide cover for existing damaged	108 days	Mon 13/1/25	Wed 30/4/25		1   11   21	1   11   21	1   11   21
1222	U-channel Slope Works at Feature No. 11NE-B/C1014 (90m)	14 days	Wed 13/11/24	Tue 26/11/24				
1223	Remove water pump & electric box	14 days	Wed 13/11/24	Tue 26/11/24	1219			
1223	Slope Works at Feature No. 11NE-B/C901 (290m)	518 days	Fri 2/6/23	Thu 31/10/24	1210			
1225	Installation of non-biodegradable erosion control mat	90 days	Fri 2/6/23	Wed 30/8/23				
1226	Hydroseeding	30 days	Wed 2/10/24	Thu 31/10/24				
1227	Installation of hand railings	36 days	Thu 7/9/23	Thu 12/10/23				
1228	Repainting of handrailing	20 days	Sun 22/10/23	Fri 10/11/23				
1229	Filling of void with concrete	37 days	Tue 2/1/24	Wed 7/2/24				
1230	Reinstatement of concrete berm	14 days	Thu 6/6/24	Wed 19/6/24	1229			
1231	Construction of lockable gate	7 days	Thu 20/6/24	Wed 26/6/24	1230			
1232	Slope Works at Feature No. 11NE-B/C900 (335m)	892 days	Sat 9/7/22	Mon 16/12/24				
1233	Installation of non-biodegradable erosion control mat	78 days	Sun 12/2/23	Sun 30/4/23				
1234	Hydroseeding	30 days	Fri 1/11/24	Sat 30/11/24				
1235	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22				
1236	Reinstatement of concrete berm	7 days	Thu 20/6/24	Wed 26/6/24	1230			
1237	Repainting of handrailing	30 days	Wed 10/5/23	Thu 8/6/23				
1238	Construction of Wire mesh	15 days	Mon 2/12/24	Mon 16/12/24				
1239	Slope Works at Feature No. 11NE-B/C899 (280m)	388 days	Mon 19/6/23	Wed 10/7/24				
1240	Filling of voids with concrete	7 days	Thu 27/6/24	Wed 3/7/24	1236			
1241	Construction of concrete berm	7 days	Thu 4/7/24	Wed 10/7/24	1240			
1242	Installation of hand railings	60 days	Mon 19/6/23	Thu 17/8/23	12.10			
1243	Repainting of handrailing	30 days	Thu 6/7/23	Fri 4/8/23				
1244	Slope Works at Feature No. 11NE-D/C872 (250m)	892 days	Sat 9/7/22	Mon 16/12/24				
1245	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22				
1246	Repainting of handrailing	30 days	Sun 2/4/23	Mon 1/5/23				
1247	Reinstatement of concrete berm	7 days	Tue 10/12/24	Mon 16/12/24	1248			
1248	Filling of void with concrete	7 days	Tue 3/12/24	Mon 9/12/24	1241			
1249	Slope Works at Feature No. 11NE-C/900 (Stage 2)	45 days	Thu 2/1/25	Sat 15/2/25				
1250	Installation of non-biodegradable erosion control mat	45 days	Thu 2/1/25	Sat 15/2/25				
1251	Slope Works at Feature No. 11NE-B/C903	30 days	Mon 2/12/24	Tue 31/12/24				
1252	Installation of non-biodegradable erosion control mat	30 days	Mon 2/12/24	Tue 31/12/24				
1253	Defects Rectification Works	29 days	Sun 3/8/25	Sun 31/8/25		3/8	31/8	
1254	Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 of the Works		Fri 28/2/25	Mon 9/3/26				
1255	Commencement of Establishment Work for Section 9	0 days	Fri 28/2/25	Fri 28/2/25		-		
1256	Establishment Work Duration for Section 9	365 days	Fri 28/2/25	Mon 9/3/26	1255			
1257	Completion of Works in Section 9	0 days	Mon 9/3/26	Mon 9/3/26	1256	-		
1258	Section of Works 10 - All Tree Protection and Preservation Works	1202 days?	Fri 30/7/21	Tue 12/11/24				
1259	Commencement of All Tree Protection and Preservation Work	0 days	Fri 30/7/21	Fri 30/7/21		1		
1260	All Tree Protection and Preservation Work	1202 days	Fri 30/7/21	Tue 12/11/24				
1261	Completion of All Tree Protection and Preservation Work	0 days	Tue 12/11/24	Tue 12/11/24	1260			

Page 20 /20



## Appendix D

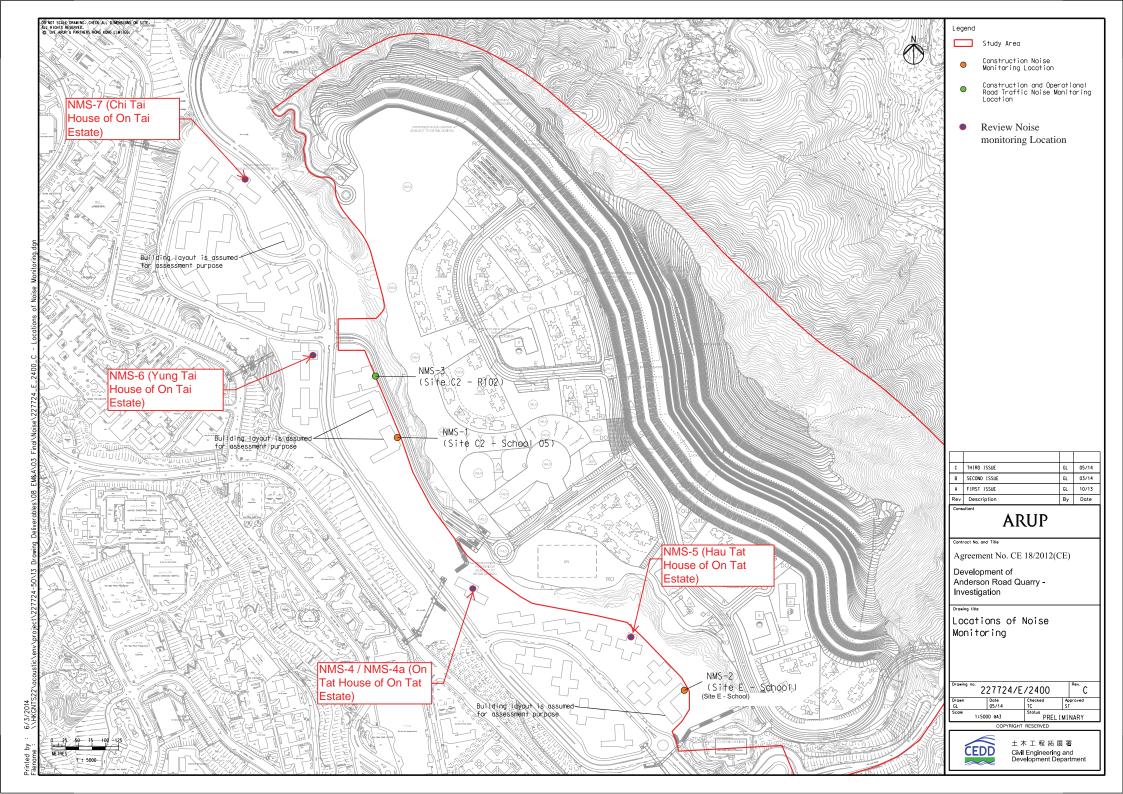
**Monitoring Locations for Impact Monitoring** 

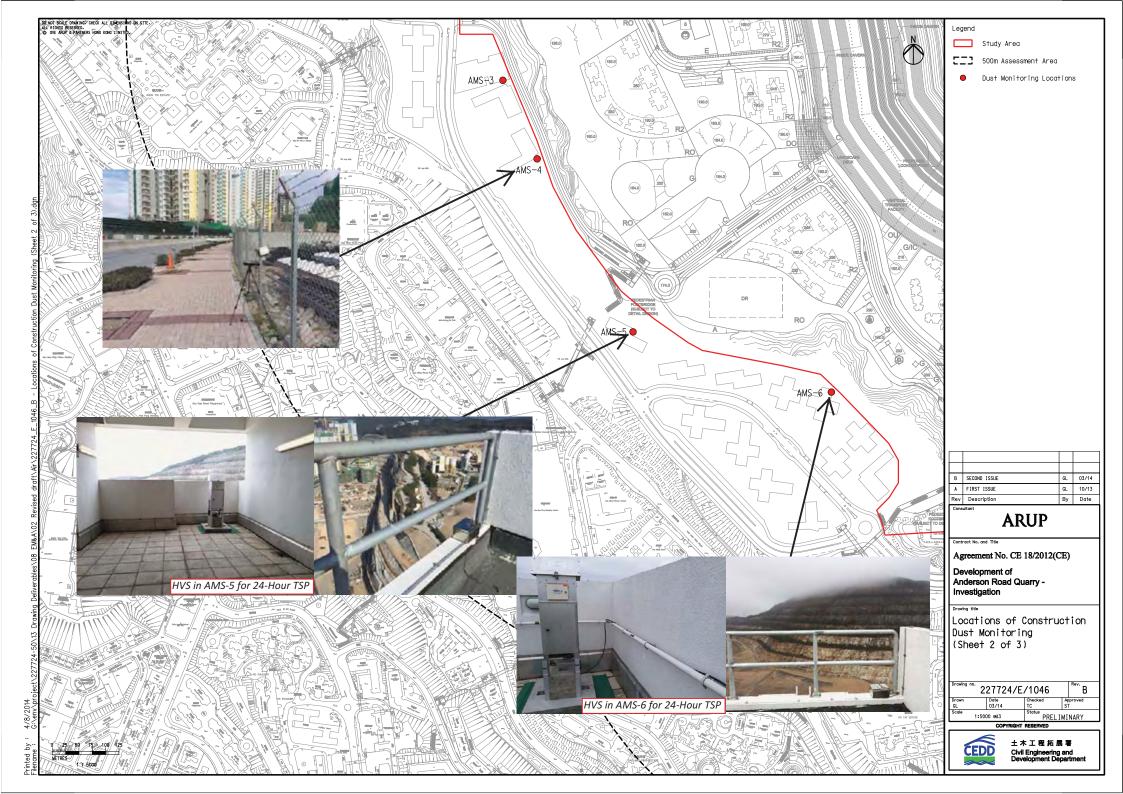
CEDD Service Contract No. EDO 12/2023 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (July 2025)

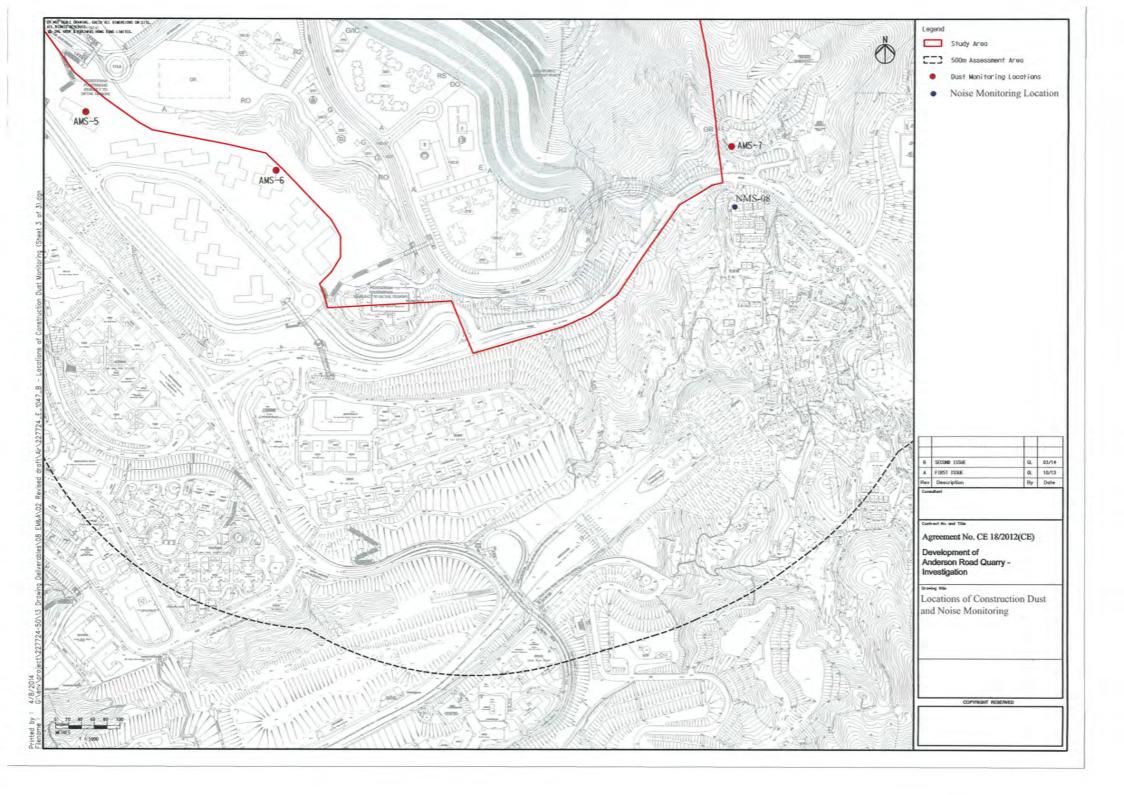


Monitoring Locations for Contract 1 (NE/2016/01)





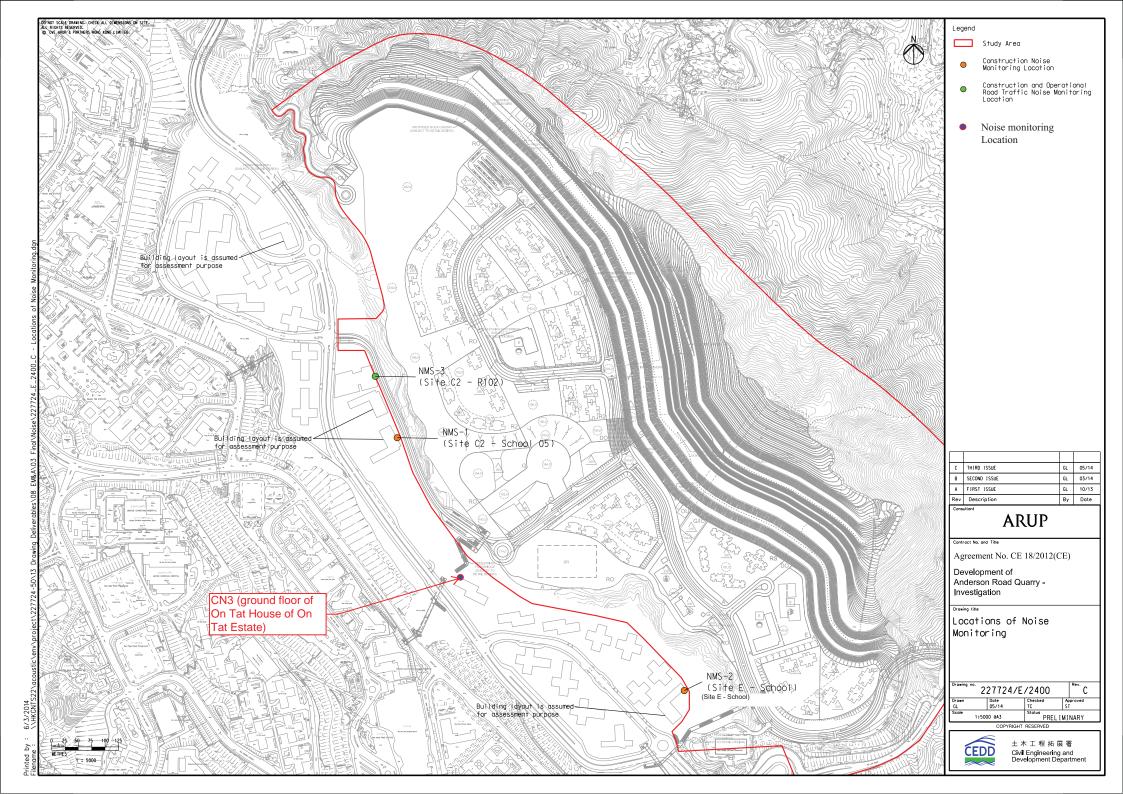


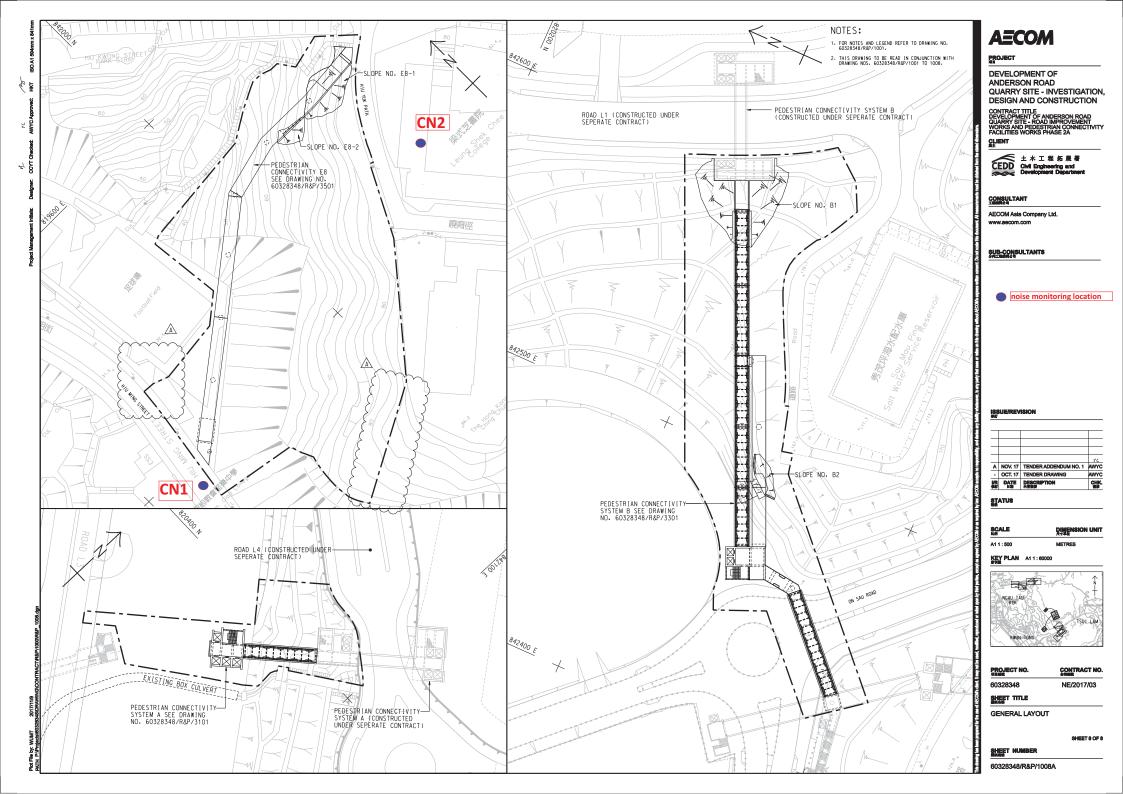


CEDD Service Contract No. EDO 12/2023 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (July 2025)



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







### Appendix E

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

Location : Tan Shan Village No. 5 - 6Date of Calibration:30-Jun-25Location ID : AMS1aNext Calibration Date:30-Aug-25Model:TISCH High Volume Air Sampler TE-5170Technician:Martin

CONDITIONS

Sea Level Pressure (hPa) Temperature (°C) 1017.5 22.4

Corrected Pressure (mm Hg)
Temperature (K)

763.125 295

**CALIBRATION ORIFICE** 

Make-> TISCH
Model-> TE-5025A
Serial # -> 1941

Qstd Slope -> Qstd Intercept -> 2.10977 -0.03782

**CALIBRATION** 

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.4	6.4	12.8	1.725	51	51.33	Slope = $38.5978$
13	5.2	5.2	10.4	1.556	45	45.29	Intercept = -15.5808
10	4	4	8	1.367	35	35.23	Corr. coeff. = 0.9967
7	2.4	2.4	4.8	1.063	26	26.17	
5	1.5	1.5	3	0.844	17	17.11	

#### Calculations :

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration ( deg K )

Pstd = actual pressure during calibration ( mm Hg )

#### For subsequent calculation of sampler flow:

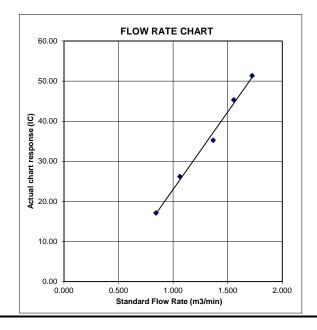
1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tay = daily average temperature



Location :Oi Tat HouseDate of Calibration:30-Jun-25Location ID :AMS 5Next Calibration Date:30-Aug-25Model:TISCH High Volume Air Sampler TE-5170Technician:Martin

#### **CONDITIONS**

Sea Level Pressure (hPa) 1017.5 Corrected Pressure (mm Hg) 763.125
Temperature (°C) 22.4 Temperature (K) 295

#### **CALIBRATION ORIFICE**

Make-> TISCH Qstd Slope -> Model-> TE-5025A Qstd Intercept -> Serial # -> 1941

#### **CALIBRATION**

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.4	6.4	12.8	1.725	56	56.36	Slope = $42.9820$
13	5.2	5.2	10.4	1.556	47	47.30	Intercept = $-19.5667$
10	4.2	4.2	8.4	1.401	37	37.24	Corr. coeff. = 0.9912
7	2.6	2.6	5.2	1.106	29	29.19	
5	1.5	1.5	3	0.844	17	17.11	

#### Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration ( deg K

Pstd = actual pressure during calibration ( mm Hg

#### For subsequent calculation of sampler flow:

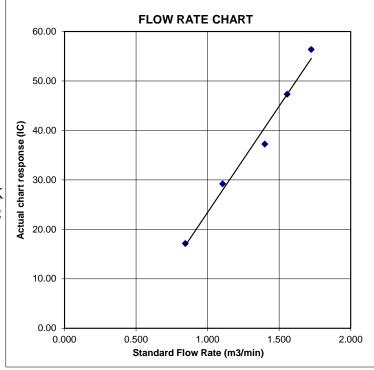
1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature



Location: Hau Tat House Date of Calibration: 30-Jun-25 Next Calibration Date: 30-Aug-25 Location ID: AMS 6

Model:TISCH High Volume Air Sampler TE-5170 Technician: Martin

CONDITIONS

Sea Level Pressure (hPa)

1017.5 Temperature (°C)

Corrected Pressure (mm Hg)

Temperature (K) 295

**CALIBRATION ORIFICE** 

Make-> TISCH Model-> TE-5025A Serial # -> 1941

Qstd Slope -> Qstd Intercept ->

#### **CALIBRATION**

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.3	6.3	12.6	1.711	53	53.34	Slope = 43.8612
13	5.4	5.4	10.8	1.586	45	46.00	Intercept = -22.2160
10	3.7	3.7	7.4	1.316	35	35.23	Corr. coeff. = 0.9933
7	2.5	2.5	5	1.085	28	28.18	
5	1.5	1.5	3	0.844	13	13.08	

#### Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration ( deg K

Pstd = actual pressure during calibration ( mm Hg )

#### For subsequent calculation of sampler flow:

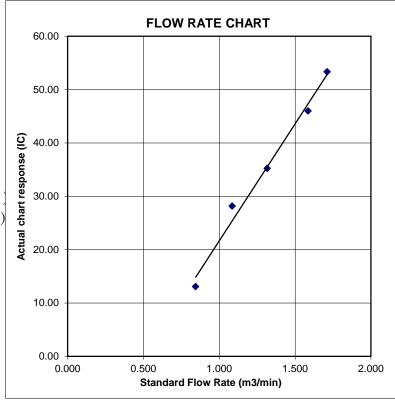
1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tay = daily average temperature



Location: Ma Yau Tong Village Date of Calibration: 30-Jun-25
Location ID: AMS 7 Next Calibration Date: 30-Aug-25

Model:TISCH High Volume Air Sampler TE-5170 Technician: Martin

**CONDITIONS** 

Sea Level Pressure (hPa) Temperature (°C) 1017.5 22.4 Corrected Pressure (mm Hg)
Temperature (K)

763.125

**CALIBRATION ORIFICE** 

Make-> TISCH
Model-> TE-5025A
Serial # -> 1941

Qstd Slope -> Qstd Intercept -> 2.10977 -0.03782

#### **CALIBRATION**

Γ	Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
L	No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
	18	6.5	6.5	13	1.738	56	56.36	Slope = 46.3835
	13	5.5	5.5	11	1.600	48	48.31	Intercept = -24.9735
	10	3.7	3.7	7.4	1.316	35	35.23	Corr. coeff. = 0.9965
	7	2.7	2.7	5.4	1.126	29	29.19	
	5	1.9	1.9	3.8	0.948	18	18.12	

#### Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration ( deg K )

Pstd = actual pressure during calibration ( mm Hg )

#### For subsequent calculation of sampler flow:

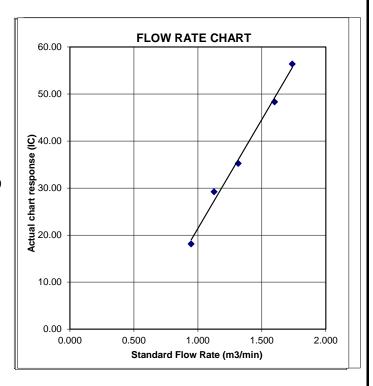
1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature





#### RECALIBRATION DUE DATE:

December 16, 2025

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: December 16, 2024

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch

Pa: 749.0

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 4064

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4600	3.2	2.00
2	3	4	1	1.0300	6.4	4.00
3	5	6	1	0.9220	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7250	12.8	8.00

		Data Tabulat	tion		
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \Big( Ta/Pa \Big)}$ (y-axis)
0.9981	0.6836	1.4159	0.9957	0.6820	0.8845
0.9938	0.9649	2.0024	0.9915	0.9626	1.2509
0.9917	1.0756	2.2388	0.9893	1.0730	1.3985
0.9906	1.1296	2.3480	0.9883	1.1269	1.4668
0.9853	1.3590	2.8318	0.9829	1.3557	1.7690
	m=	2.09671		m=	1.31292
QSTD	b=	-0.01852	QA	b=	-0.01157
	r=	0.99999	-	r=	0.99999

	Calculation	ıs	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\left(\frac{Tstd}{Ta}\right)\right)}-b\right)$	Qa=	1/m((√ΔH(Ta/Pa))-b

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

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 : HK2437857

CLIENT : ACTION-UNITED ENVIRONMENTAL

**SERVICES & CONSULTING** 

ADDRESS : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 SUB-BATCH :

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

Richard Fung

Managing Director

: HK2437857 WORK ORDER

SUB-BATCH

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING CLIENT

PROJECT



ALS Lab	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2437857-	OO1 S/N: 467389 (EQ125)	AIR	16-Sep-2024	S/N: 467389 (EQ125)

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

 $\mathsf{Page}: 2 \ \mathsf{of} \ 2$ 

#### **Equipment Verification Report (TSP)**

#### **Equipment Calibrated:**

Type: 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/m³ (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)

704 (CPM)

Sensitivity Adjustment Scale Setting (After Calibration)

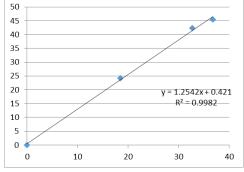
705 (CPM)

#### Linear Regression of Y or X

Slope (K-factor): <u>1.2542 (μg/m³)/CPM</u>

Correlation Coefficient (R) 0.9991

Date of Issue 10 September 2024



#### Remarks:

1. Strong Correlation (R>0.8)

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

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

QC Reviewer : Ben Tam Signature : Date : 10 September 2024

#### TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 15-Aug-24
Location ID: Calibration Room - TISCH Higher Volume Sampler (Model Next Calibration Date: 15-Nov-24

TE-5170) S/N:1260

#### CONDITIONS

Sea Level Pressure (hPa) Temperature (°C)

1005.2
27.7

Corrected Pressure (mm Hg)
Temperature (K)

753.9 301

#### **CALIBRATION ORIFICE**

Make->	TISCH
Model->	5025A
Calibration Date->	15-Dec-23

Qstd Slope ->
Qstd Intercept ->
Expiry Date->

2.13163 -0.03523 15-Dec-24

#### **CALIBRATION**

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.4	6.4	12.8	1.681	46	45.61	Slope = 31.2876
13	5.2	5.2	10.4	1.517	40	39.66	Intercept = $-7.3464$
10	4	4	8.0	1.332	35	34.70	Corr. coeff. = 0.9981
8	2.5	2.5	5.0	1.057	25	24.79	
5	1.6	1.6	3.2	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 rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = 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)

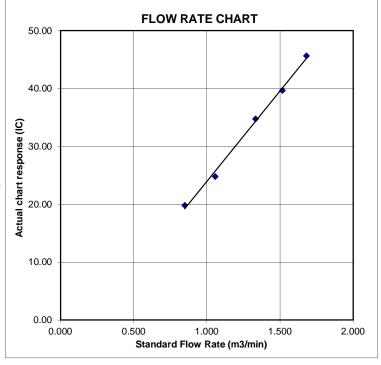
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





#### RECALIBRATION DUE DATE:

December 15, 2024

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: December 15, 2023

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 1941

**Pa:** 748.5 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9260	8.0	5.00
4	7	8	1	0.8840	8.9	5.50
5	9	10	1	0.7290	12.9	8.00

	Data Tabulation						
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa)		
0.9907	0.6790	1.4106	0.9957	0.6825	0.8878		
0.9864	0.9522	1.9949	0.9914	0.9570	1.2556		
0.9843	1.0630	2.2304	0.9893	1.0684	1.4037		
0.9831	1.1121	2.3393	0.9881	1.1178	1.4723		
0.9778	1.3413	2.8213	0.9828	1.3481	1.7756		
	m=	2.13163		m=	1.33479		
QSTD	b=	-0.03523	QA	b=	-0.02217		
	r=	0.99999		r=	0.99999		

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

## **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 :

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

Richard Fung

Managing Director

: HK2437858 WORK ORDER

SUB-BATCH

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING CLIENT

PROJECT



ALS Lab	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 -----

Page: 2 of 2

#### **Equipment Verification Report (TSP)**

#### **Equipment Calibrated:**

Type: 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/m³ (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)

613 (CPM)

Sensitivity Adjustment Scale Setting (After Calibration)

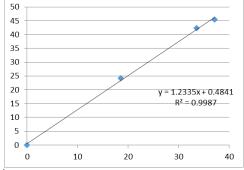
612 (CPM)

#### Linear Regression of Y or X

Slope (K-factor): <u>1.2335 (μg/m³)/CPM</u>

Correlation Coefficient (R) 0.9993

Date of Issue 10 September 2024



#### Remarks:

1. Strong Correlation (R>0.8)

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

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

QC Reviewer : Ben Tam Signature : Date : 10 September 2024

#### TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 15-Aug-24
Location ID: Calibration Room - TISCH Higher Volume Sampler (Model Next Calibration Date: 15-Nov-24

TE-5170) S/N:1260

#### CONDITIONS

Sea Level Pressure (hPa) Temperature (°C)

1005.2
27.7

Corrected Pressure (mm Hg)
Temperature (K)

753.9 301

#### **CALIBRATION ORIFICE**

Make->	TISCH
Model->	5025A
Calibration Date->	15-Dec-23

Qstd Slope ->
Qstd Intercept ->
Expiry Date->

2.13163 -0.03523 15-Dec-24

#### **CALIBRATION**

	Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
	No.	No. (in) (in)		(in)	(m3/min)	(chart)	corrected	REGRESSION
	18	6.4	6.4	12.8	1.681	46	45.61	Slope = 31.2876
	13	5.2	5.2	10.4	1.517	40	39.66	Intercept = $-7.3464$
	10	4	4	8.0	1.332	35	34.70	Corr. coeff. = 0.9981
	8	2.5	2.5	5.0	1.057	25	24.79	
	5	1.6	1.6	3.2	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 rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = 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)

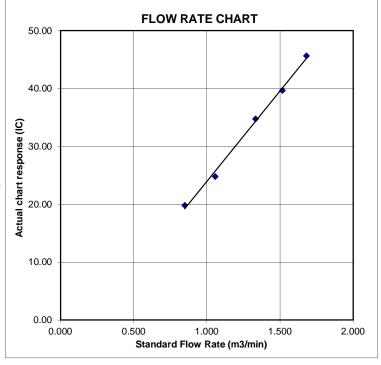
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





#### RECALIBRATION DUE DATE:

December 15, 2024

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: December 15, 2023

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 1941

**Pa:** 748.5 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9260	8.0	5.00
4	7	8	1	0.8840	8.9	5.50
5	9	10	1	0.7290	12.9	8.00

	Data Tabulation								
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa)				
0.9907	0.6790	1.4106	0.9957	0.6825	0.8878				
0.9864	0.9522	1.9949	0.9914	0.9570	1.2556				
0.9843	1.0630	2.2304	0.9893	1.0684	1.4037				
0.9831	1.1121	2.3393	0.9881	1.1178	1.4723				
0.9778	1.3413	2.8213	0.9828	1.3481	1.7756				
	m=	2.13163		m=	1.33479				
QSTD	b=	-0.03523	QA	b=	-0.02217				
	r=	0.99999		r=	0.99999				

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pa)		
Qstd= Vstd/ΔTime		Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

## **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 :

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

Richard Fung

Managing Director

: HK2437859 WORK ORDER

SUB-BATCH

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING CLIENT

PROJECT



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

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

 $\mathsf{Page}: 2 \ \mathsf{of} \ 2$ 

#### **Equipment Verification Report (TSP)**

#### **Equipment Calibrated:**

Type: Laser Dust monitor

Manufacturer: Sibata LD-5R

Serial No. 467391

Equipment Ref: EQ127

#### **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/m³ (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)

665 (CPM)

Sensitivity Adjustment Scale Setting (After Calibration)

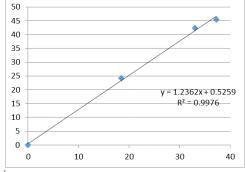
665 (CPM)

#### Linear Regression of Y or X

Slope (K-factor): <u>1.2362 (μg/m³)/CPM</u>

Correlation Coefficient (R) 0.9987

Date of Issue 10 September 2024



#### Remarks:

1. Strong Correlation (R>0.8)

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

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

QC Reviewer : Ben Tam Signature : Date : 10 September 2024

#### TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 15-Aug-24
Location ID: Calibration Room - TISCH Higher Volume Sampler (Model Next Calibration Date: 15-Nov-24

TE-5170) S/N:1260

#### CONDITIONS

Sea Level Pressure (hPa) Temperature (°C)

1005.2
27.7

Corrected Pressure (mm Hg)
Temperature (K)

753.9 301

#### **CALIBRATION ORIFICE**

Make->	TISCH
Model->	5025A
Calibration Date->	15-Dec-23

Qstd Slope ->
Qstd Intercept ->
Expiry Date->

2.13163 -0.03523 15-Dec-24

#### **CALIBRATION**

	Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
	No.	No. (in) (in)		(in)	(m3/min)	(chart)	corrected	REGRESSION
	18	6.4	6.4	12.8	1.681	46	45.61	Slope = 31.2876
	13	5.2	5.2	10.4	1.517	40	39.66	Intercept = $-7.3464$
	10	4	4	8.0	1.332	35	34.70	Corr. coeff. = 0.9981
	8	2.5	2.5	5.0	1.057	25	24.79	
	5	1.6	1.6	3.2	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 rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = 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)

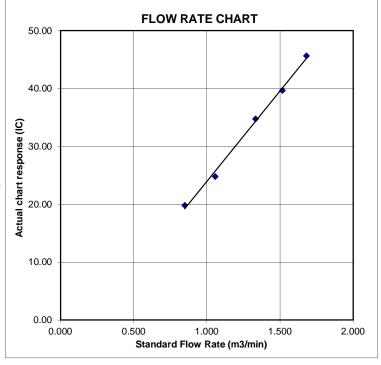
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





#### RECALIBRATION DUE DATE:

December 15, 2024

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: December 15, 2023

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 1941

**Pa:** 748.5 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9260	8.0	5.00
4	7	8	1	0.8840	8.9	5.50
5	9	10	1	0.7290	12.9	8.00

	Data Tabulation								
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa)				
0.9907	0.6790	1.4106	0.9957	0.6825	0.8878				
0.9864	0.9522	1.9949	0.9914	0.9570	1.2556				
0.9843	1.0630	2.2304	0.9893	1.0684	1.4037				
0.9831	1.1121	2.3393	0.9881	1.1178	1.4723				
0.9778	1.3413	2.8213	0.9828	1.3481	1.7756				
	m=	2.13163		m=	1.33479				
QSTD	b=	-0.03523	QA	b=	-0.02217				
	r=	0.99999		r=	0.99999				

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

## **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 :

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

Richard Fung

Managing Director

: HK2437860 WORK ORDER

SUB-BATCH

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING CLIENT

PROJECT



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

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

#### **Equipment Verification Report (TSP)**

#### **Equipment Calibrated:**

Type: 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/m³ (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)

715 (CPM)

Sensitivity Adjustment Scale Setting (After Calibration)

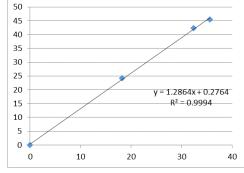
714 (CPM)

#### Linear Regression of Y or X

Slope (K-factor): 1.2864g/m³)/CPM

Correlation Coefficient (R) 0.9997

Date of Issue 10 September 2024



#### Remarks:

1. Strong Correlation (R>0.8)

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

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

QC Reviewer : Ben Tam Signature : Date : 10 September 2024

#### TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 15-Aug-24
Location ID: Calibration Room - TISCH Higher Volume Sampler (Model Next Calibration Date: 15-Nov-24

TE-5170) S/N:1260

#### CONDITIONS

Sea Level Pressure (hPa) Temperature (°C)

1005.2
27.7

Corrected Pressure (mm Hg)
Temperature (K)

753.9 301

#### **CALIBRATION ORIFICE**

Make->	TISCH
Model->	5025A
Calibration Date->	15-Dec-23

Qstd Slope ->
Qstd Intercept ->
Expiry Date->

2.13163 -0.03523 15-Dec-24

#### **CALIBRATION**

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.4	6.4	12.8	1.681	46	45.61	Slope = 31.2876
13	5.2	5.2	10.4	1.517	40	39.66	Intercept = $-7.3464$
10	4	4	8.0	1.332	35	34.70	Corr. coeff. = 0.9981
8	2.5	2.5	5.0	1.057	25	24.79	
5	1.6	1.6	3.2	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 rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = 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)

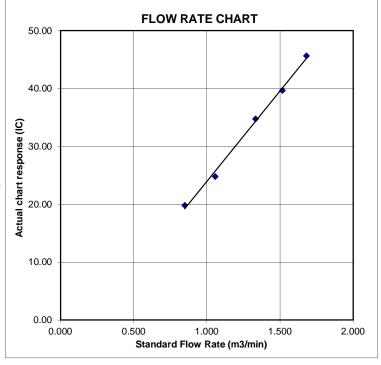
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure





#### RECALIBRATION DUE DATE:

December 15, 2024

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: December 15, 2023

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 1941

**Pa:** 748.5 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9260	8.0	5.00
4	7	8	1	0.8840	8.9	5.50
5	9	10	1	0.7290	12.9	8.00

		Data Tabulat	tion		
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	√∆H(Ta/Pa)
0.9907	0.6790	1.4106	0.9957	0.6825	0.8878
0.9864	0.9522	1.9949	0.9914	0.9570	1.2556
0.9843	1.0630	2.2304	0.9893	1.0684	1.4037
0.9831	1.1121	2.3393	0.9881	1.1178	1.4723
0.9778	1.3413	2.8213	0.9828	1.3481	1.7756
	m=	2.13163		m=	1.33479
QSTD	b=	-0.03523	QA	b=	-0.02217
	r=	0.99999		r=	0.99999

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



#### **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



Certificate No. 411103

Page 1 of 4 Pages

Customer: Action-United Environmental Services & consulting

Address : Unit A, 20/F. Gold King Industrial Building, 35-41 Tal Lin Pai Road, Kwai Chung, New Territories, Hong Kong

Order No.: Q44140 Date of receipt : 25-Oct-24

Item Tested

Description : Sound Level Meter

 Manufacturer: B&K
 I.D.
 : EQ0215

 Model
 : 2238
 Serial No.
 : 2285722

**Test Conditions** 

Date of Test: 8-Nov-24 Supply Voltage : --

Ambient Temperature :  $(23 \pm 3)^{\circ}$ C Relative Humidity :  $(50 \pm 25)$  %

**Test Specifications** 

Calibration check.

The UUT has an indication that it conforms to IEC 61672 Class 1.

Ref. Document/Procedure: Z01, IEC 61672-1:2002.

**Test Results** 

All results were within the IEC 61672 Class 1 specification or Tolerance (where applicable)

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.DescriptionCert. No.Traceable toS017Multi-Function GeneratorC211339SCL-HKSAR

S240 Sound Level Calibrator 405380 NIM-PRC & SCL-HKSAR

The values given in this Calibration 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 environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by

Elva Chong

Approved by:

Kin Wong

This Certificate is issued by Hong Kong Calibration Ltd. Date: 8-Nov-24

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. 411103

Page 2 of 4 Pages

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

Results:

#### Acoustical signal test

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

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

<sup>\*</sup>Adjustment using the customer's sound calibrator was performed immediately before test.

Tolerance: ± 1.0 dB Uncertainty: ± 0.1 dB

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

#### Electrical signal tests

#### 2. Frequency weightings (A,F)

Free	Frequency Attenuation (dB)		IEC 61672-1 Class 1 Spec.
31.5	Hz	-39.5	- 39.4 dB, ± 1.5 dB
63	Hz	-26.2	- 26.2 dB, ± 1.0 dB
125	Hz	-16.2	- 16.1 dB, ± 1.0 dB
250	Hz	-8.7	- 8.6 dB, ± 1.0 dB
500	Hz	-3.3	- 3.2 dB, ± 1.0 dB
1	kHz	0.0 (Ref)	0 dB, ± 0.7 dB
2	kHz	+1.2	+ 1.2 dB, ± 1.0 dB
4	kHz	+0.9	+ 1.0 dB, ± 1.0 dB
8	kHz	-1,3	- 1.1 dB, + 1.5 dB ~ -2.5 dB
16	kHz	-6.8	- 6.6 dB, +2.5 dB ~ - 16.0 dB

Uncertainty: ± 0.1 dB



Certificate No. 411103

Page 3 of 4 Pages

#### 3. Frequency & Time weightings

### 3.1 Frequency Weighting (1kHz)

UUT:	Setting			
Time Weight.	Freq. Weight.	Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
F	A	94.0	94.0 (Ref.)	
	C		94.0	± 0.2 dB
	1		94.0	

Uncertainty: ± 0.1 dB

#### 3.2 Time Weighting (1kHz)

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

Uncertainty: ± 0.1 dB

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

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

Uncertainty: ± 0.1 dB



Certificate No. 411103 Page 4 of 4 Pages

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

UUT Range (dB)	Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
14.0-94.0	94.0	93.8	± 0.8 dB
24.0-104.0		94.0	
34.0-114.0		94.0	
44.0-124.0		94.0	
54,0-134.0		94.0 (Ref.)	
64.0-144.0		94.1	

Uncertainty: ± 0.1 dB

Remarks: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1 008 hPa.

4. Microphone model: 4188, S/N: 2812706.

----- END -----

## Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-31 (Serial No.: 00410247)

Microphone:

UC-53A (Serial No.: 322738)

Preamplifier:

NH-21 (Serial No.: 36853)

#### Submitted by:

Customer:

Action-United Environmental Services & Consulting

Address:

Unit A, 20/F, Gold King Industrial Building

35-41 Tai Lin Pai Road, Kwai Chung,

New Territories, Hong Kong

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

**☑** Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 23 April 2025

Date of calibration: 28 April 2025

Date of NEXT calibration: 27 April 2026

Calibrated by:

Certified by:

Mr. Ng Yan Wa

Page 1 of 4

Laboratory Manager

Date of issue: 28 April 2025

Certificate No.: APJ25-008-CC004

E-mail: inquiry@aa-lab.com



#### 1. Calibration Precaution:

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

#### 2. Calibration Conditions:

Air Temperature:23.2 °CAir Pressure:1006 hPaRelative Humidity:50.8 %

#### 3. Calibration Equipment:

Type Serial No. Calibration Report Number Traceable to

Multifunction Calibrator B&K 4226 2288467 AV240081 HOKLAS

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB Freq. Weighting Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB		
30-120	dBA	SPL	Fast	94	1000	94.0	±0.4

#### Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-120	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

#### Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20, 120	AD A	CDI	Fast	94	1000	94.0	Ref
30-120	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ25-008-CC004

Page 2 of 4



#### Frequency Response

#### Linear Response

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weigl	hting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
	4.				250	94.1	±1.4
30-120	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
			y l		4000	93.4	±1.6
					8000	92.0	+2.1; -3.1

#### A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.9	-39.4 ±2.0
			0.0		63	68.1	-26.2 ±1.5
b					125	78.0	-16.1 ±1.5
					250	85.4	-8.6±1.4
30-120	dBA	SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.0	+1.2±1.6
					4000	94.4	+1.0 ±1.6
			A		8000	91.0	-1.1+2.1; -3.1

#### C-weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
				( i i i i	63	93.4	-0.8 ±1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ±1.4
30-120	dBC	SPL	Fast	94	500	95.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.7	-0.2 ±1.6
					4000	92.6	-0.8 ±1.6
					8000	89.1	-3.0 +2.1: -3.1

Certificate No.: APJ25-008-CC004



Page 3 of 4



#### 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

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

A+A) \*L S

Page 4 of 4

## Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No .:

NL-52 (Serial No.: 00921191)

Microphone:

RION UC-59 (Serial No.: 12910)

Preamplifier:

NH-25 (Serial No.: 32609)

#### Submitted by:

Customer:

Action-United Environmental Services & Consulting

Address:

Unit A, 20/F, Gold King Industrial Building

35-41 Tai Lin Pai Road, Kwai Chung,

New Territories, Hong Kong

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

✓ Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 16 December 2024

Date of calibration: 20 December 2024

Date of NEXT calibration: 19 December 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 20 December 2024

Certificate No.: APJ24-111-CC001

Page 1 of 4



#### 1. Calibration Precaution:

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

#### 2. Calibration Conditions:

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

3. Calibration Equipment:

Type Serial No. Calibration Report Number Traceable to

Multifunction Calibrator B&K 4226 2288467 AV240081 HOKLAS

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

#### Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

#### Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	JD A	CDI	Fast	0.4	1000	94.0	Ref
30-130	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ24-111-CC001



Page 2 of 4

#### Frequency Response

#### Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class	
Range, dB	Freq. We	ighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	B SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.6	±1.6
					4000	92.8	±1.6
					8000	91.0	+2.1; -3.1

#### A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.7	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.4	-8.6 ±1.4
30-130	dBA	BA SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.8	+1.2 ±1.6
					4000	93.8	+1.0 ±1.6
					8000	90.1	-1.1+2.1; -3.1

#### C-weighting

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

Certificate No.: APJ24-111-CC001

Page 3 of 4



#### 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

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



Certificate No.: APJ24-111-CC001

Page 4 of 4



Certificate No. 411106

2 Pages Page

Customer: Action-United Environmental Services & consulting

Address : Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong

Order No.: Q44140 Date of receipt 25-Oct-24

Item Tested

Description : Sound Calibrator

Manufacturer: B&K I.D. : EQ082 Model : Type 4231 Serial No. : 2713428

**Test Conditions** 

Date of Test: 8-Nov-24 Supply Voltage : --

Ambient Temperature: (23 ± 3)°C Relative Humidity: (50 ± 25) %

**Test Specifications** 

Calibration check.

The UUT has an indication that it conforms to IEC 60942:2017 Class 1.

Ref. Document/Procedure: F21, Z02, IEC 60942:2017.

**Test Results** 

All results were within the IEC 60942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment N	lo. Description	Cert. No.	Traceable to
S240	Sound Level Calibrator	405380	NIM-PRC & SCL-HKSAR
S014	Spectrum Analyzer	405219	NIM-PRC & SCL-HKSAR
S041	Universal Counter	402289	SCL-HKSAR
S206	Sound Level Meter	405379	SCL-HKSAR

The values given in this Calibration 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 environmental changes, vibration and shock during transportation; overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by

Approved by:

Kin Wong

This Cartificate is issued by Hong Kong Calibration Ltd

Date: 8-Nov-24

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:  $\pm 0.2 \text{ dB}$ 

2. 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:  $\pm 3.6 \times 10^{-6}$ 

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.

----- END -----



Certificate No. 411107

Page 1 of 2 Pages

Customer: Action-United Environmental Services & consulting

Address : Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road, Kwai Chung, New Territories, Hong Kong

Order No.: Q44140 Date of receipt : 25-Oct-24

Item Tested

Description : Sound Level Calibrator

 Manufacturer : Rion
 I.D.
 : EQ085

 Model
 : NC-73
 Serial No.
 : 10655561

**Test Conditions** 

Date of Test: 8-Nov-24 Supply Voltage : --

Ambient Temperature: (23 ± 3)°C Relative Humidity: (50 ± 25) %

**Test Specifications** 

Calibration check.

Ref. Document/Procedure: F21, Z02, IEC 60942:2017.

#### **Test Results**

The results are shown in the attached page(s).

Main Test equipment 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

The values given in this Calibration 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 environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by

Elva Chong

Approved by:

8-Nov-24

Kin Wong

This Certificate is issued by

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. 411107 Page 2 of 2 Pages

#### Results:

#### 1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	Tolerance
94.0	94.1	± 0.4 dB

Uncertainty: ± 0.2 dB

2. Short-term Level Fluctuation: 0.0 dB

Tolerance (Ref 1FC 60942 Class 2 Spec 4: ± 0.15 dB

Uncertainty: ± 0.05 dB

#### 3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	Tolerance
1	*0.952	± 1.7 %

Uncertainty:  $\pm 3.6 \times 10^{-6}$ 

4. Total Distortion + Noise: < 0.1 %
Tolerance(Ref IEC 60042 Class 2 Spec.): < 3.0 %

Uncertainty: ± 2.3 % of reading

Remark: I. 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.

----- END -----

## Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

**RION** 

Type No.:

NC-75

Serial No.:

34680623

#### Submitted by:

Customer:

Action-United Environmental Services & Consulting

Address:

Unit A, 20/F, Gold King Industrial Building

35-41 Tai Lin Pai Road, Kwai Chung,

New Territories, Hong Kong

Upon receipt for calibration, the instrument was found to be:	
<ul><li>✓ Within</li><li>☐ Outside</li></ul>	
the allowable tolerance.	
The test equipments used for calibration are traceable to National Start- The Government of The Hong Kong Special Administrative Re- Laboratory	
Date of receipt: 23 April 2025	
Date of calibration: 28 April 2025	
Date of NEXT calibration: 27 April 2026	
Calibrated by: Certified by:	Mr. Ng Yan Wa

Certificate No.: APJ25-008-CC005

Date of issue: 28 April 2025

Page 1 of 2

## Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

#### 1. Calibration Precautions:

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

#### 2. Calibration Specifications:

Calibration check

#### 3. Calibration Conditions:

23.2 ° <b>C</b>
1006 <b>hP</b> a
50.8 %

#### Calibration Equipment: 4.

Test Equipment  Multifunction Calibrator	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

#### 5. Calibration Results

#### 5.1 Sound Pressure Level

Nominal value	Accept lower level dB	Accept upper level	Measured value
dB		dB	dB
94.0	93.6	94.4	94.0

#### 6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

### Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ25-008-CC005

Page 2 of 2

Homepage: http://www.aa-lab.com



## Appendix F

**Event and Action Plan** 



### **Event / Action Plan for construction dust**

E4		Action		
Event	ET	ER	Contractor	
Action Level exceedance for one sample	I. 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.	I. 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	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC, ER and Contractor;</li> <li>Advise the ER and Contractor on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC, ER and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise Implementation of remedial measures.</li> </ol>	Confirm receipt of notification of failure in writing;     Notify Contractor; and     Supervise and ensure remedial measures properly implemented.	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>
Limit Level exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor, IEC and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily; and</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Advise the ER and ET on the effectiveness of the proposed remedial measures; and</li> <li>Supervise implementation of remedial measures.</li> </ol>	Confirm receipt of notification of failure in writing;     Notify Contractor; and     Supervise and ensure remedial measures properly implemented.	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>
Limit Level exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and</li> <li>Supervise the implementation of remedial measures.</li> </ol>	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise and ensure remedial measures properly implemented; and 5. 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.	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control; and</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

#### **CEDD Service Contract No. EDO 12/2023**

 $\label{lem:condition} \textbf{Environmental Team for Development of Anderson Road Quarry Site-Site Formation and Associated Infrastructure Works}$ 





### **Event and Action Plan for Construction Noise**

Enon4	Action			
Event	ET	IEC	ER	Contractor
Action Level Exceedance	<ol> <li>Notify IEC, ER and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures; and</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	1. Review the analysed results submitted by the ET;  2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and  3. 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.	1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.
Limit Level Exceedance	<ol> <li>Identify source;</li> <li>Inform IEC, ER, EPD and Contractor;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;  2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and  3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; and 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.



## Appendix G

**Impact Monitoring Schedule** 

### 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 (July 2025)

**Impact Monitoring Schedule for the Reporting Period** 

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

✓	Monitoring Day
	Sunday or Public Holiday

## 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 (July 2025)

**Impact Monitoring Schedule for next Reporting Period** 

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

✓	Monitoring Day
	Sunday or Public Holiday



## Appendix H

**Database of Monitoring Result** 



#### 24-HOUR TSP MONITORING RESULT DATABASE

24-hour TS	24-hour TSP Monitoring Data for AMS1a														
DATE	SAMPLE NUMBER	ELA	APSED TIN	ИΕ	READING			AVG TEMP	AVG AIR PRESS	PRESS   FLOW RATE   VOLUMI		FILTER V	)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)		MIN MAX AVG (°C)		(hPa)	(m <sup>3</sup> /min)	(std m <sup>3</sup> )	INITIAL FINAL		(g)	(μg/m <sup>3</sup> )	
5-Jul-25			29279.96				41	30.6	1003.3	1.45	2085	2.7341 2.7998		0.0657	32
11-Jul-25			29303.96		41	41	41	27.9	998.9	1.45	2088	2.6867	2.7242	0.0375	18
17-Jul-25			29327.96		41	41	41	31.3	1003.1	1.45	2084	2.7344	2.7933	0.0589	28
23-Jul-25			29351.96		41	41	41	33.3	1003.2	1.44	2079	2.7681	2.7871	0.019	9
29-Jul-25			29375.96	1440.00	41	41	41	29.1	996.9	1.45	2084	2.7607	2.8014	0.0407	20
24-hour TS	P Monitorir	ng Data fo	r AMS-5												
DATE	SAMPLE NUMBER		APSED TIN		R	CHART EADIN	IG	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER V	)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	\ /		MAX		(°C)	(hPa)	(m³/min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	(µg/m³)
5-Jul-25	21580		17325.03		39	39	39.0	30.6	1003.3	1.38	1985	2.7049	2.7464	0.0415	21
11-Jul-25	21708		17349.03		39	39	39.0	27.9	998.9	1.38	1988	2.7690	2.8065	0.0375	19
17-Jul-25	21698		17373.03		39	39	39.0	31.3	1003.1	1.38	1984	2.7836	2.8484	0.0648	33
23-Jul-25	21581			1440.00	39	39	39.0	33.3	1003.2	1.37	1979	2.6715	2.6915	0.0200	10
29-Jul-25	21635	17397.09	17421.09	1440.00	39	39	39.0	29.1	996.9	1.38	1984	2.7702	2.8420	0.0718	36
24-hour TS	P Monitorir	ng Data for	r AMS-6												
DATE	SAMPLE NUMBER		APSED TIN	ИE	CHART READING			AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WEIGHT (g)		DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL			MAX		(°C)	(hPa)	(m³/min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
5-Jul-25	21474	22368.10	22392.10	1440.00	42	42	42.0	30.6	1003.3	1.43	2066	2.7449	2.8051	0.0602	29
11-Jul-25	21707	22392.10	22416.10	1440.00	42	42	42.0	27.9	998.9	1.44	2069	2.7887	2.8023	0.0136	7
17-Jul-25	21699	22416.10	22440.10	1440.00	42	42	42.0	31.3	1003.1	1.43	2064	2.7992	2.8118	0.0126	6
23-Jul-25	21584	22440.10	22464.10	1440.00	42	42	42.0	33.3	1003.2	1.43	2059	2.6975	2.7450	0.0475	23
29-Jul-25	21696	22464.10	22488.10	1440.00	42	42	42.0	29.1	996.9	1.43	2064	2.7838	2.8830	0.0992	48
24-hour TS	P Monitorir	ng Data for	r AMS-7												
DATE	SAMPLE NUMBER		APSED TIN		R	CHART EADIN	IG	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER V	)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL		MIN	MAX		(℃)	(hPa)	(m³/min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
5-Jul-25	21472		17195.32		41	41	41.0	30.6	1003.3	1.40	2020	2.7401	2.7927	0.0526	26
11-Jul-25	21589		17219.32		41	41	41.0	27.9	998.9	1.40	2023	2.7000	2.7520	0.0520	26
17-Jul-25	21723	17219.32	17243.32	1440.00	41	41	41.0	31.3	1003.1	1.40	2019	2.7456	2.7613	0.0157	8
23-Jul-25	21585	17243.32	17267.32	1440.00	41	41	41.0	33.3	1003.2	1.40	2014	2.6854	2.7076	0.0222	11
29-Jul-25	21582	17267.32	17291.32	1440.00	41	41	41.0	29.1	996.9	1.40	2019	2.6920	2.6958	0.0038	2



### NOISE MONITORING RESULT DATABASE FOR CONTRACT ${\bf 1}$

Noise Meas	oise Measurement Results (dB) of NMS1																				
	Start	1st Leq (5min)			2nd	2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			Leq (51	Leq30	Limit	
Date	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)
3-Jul-25	13:05	69.7	73.6	59.4	69.5	73.5	68.2	71.5	74.9	58.6	69.4	74.9	58.3	68.5	73.3	55.7	62.0	72.7	66.4	69	70
9-Jul-25	9:10	68.9	73.1	60.5	70.5	74.9	60.9	68.5	72.9	61.0	71.0	75.2	61.2	69.2	74.0	60.1	69.9	73.4	59.8	70	70
15-Jul-25	9:00	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
21-Jul-25	9:00	62.2	66.2	54.8	60.5	64.0	54.2	58.7	75.1	58.4	68.3	73.1	61.9	69.6	74.2	57.9	70.2	74.0	57.1	67	70

Noise Meas	ise Measurement Results (dB) of NMS2																				
Start		1st Leq (5min)			2nd Leq (5min)			3rd	3rd Leq (5min)		4th Leq (5min)		5th Leq (5min)			6th	Leq (51	Leq30	Limit		
Date	Time	ΔΩ.	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)
3-Jul-25	9:10	55.6	56.8	54.3	57.8	58.2	56.4	58.7	59.7	57.8	59.0	61.4	57.0	57.5	58.1	56.9	58.7	59.9	57.2	58	70
9-Jul-25	10:05	61.1	63.5	58.0	62.8	65.3	59.1	61.5	64.7	59.5	62.5	65.0	58.8	60.9	63.0	58.2	62.2	66.8	58.5	62	70
15-Jul-25	13:10	58.1	61.6	51.3	59.6	63.6	51.5	59.8	63.8	51.2	58.9	62.5	51.7	56.8	59.8	50.2	58.8	62.5	52.4	59	70
21-Jul-25	13:10	59.0	61.5	54.6	57.8	60.7	53.9	57.5	60.0	54.3	58.6	61.8	54.9	60.5	64.7	54.3	60.9	63.9	56.0	59	70

Noise Meas	uremer	nt Resu	lts (dB)	of NMS	S3																
	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (51	min)	I aa20min	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
	1111111	$dB(\bar{A})$	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	ub(A)	dB(A)
3-Jul-25	13:10	60.5	63.7	55.4	61.8	64.3	56.1	60.9	63.9	56.0	63.4	66.2	57.7	62.3	65.0	56.2	60.7	63.5	56.3	62	75
9-Jul-25	10:20	56.3	57.8	53.8	55.2	56.9	53.3	57.4	60.7	53.5	56.7	59.5	53.6	57.5	59.8	54.3	56.8	59.2	53.8	57	75
15-Jul-25	11:22	62.0	63.5	58.2	62.2	64.0	59.1	65.1	66.8	60.5	63.1	65.5	59.2	66.4	67.6	60.0	62.9	66.2	59.7	64	75
21-Jul-25	11:07	62.9	66.1	55.2	60.1	62.9	56.1	61.0	63.7	55.9	61.2	63.5	55.4	63.2	66.3	55.9	63.9	67.0	56.5	62	75

Noise Mea	sureme	nt Resu	ults (dB	) of NM	S4a																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Leq30m	Limit
Date	Time	100	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	in,	Level
	1 IIIIe	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)
3-Jul-25	10:30	56.9	58.6	55.0	56.4	57.7	54.7	57.1	58.4	55.7	57.1	59.9	54.4	59.4	60.8	58.2	60.0	61.3	58.2	58	75
9-Jul-25	13:07	65.5	68.9	62.1	66.1	69.4	62.6	65.2	680	61.5	66.2	69.0	62.5	64.1	68.2	61.9	66.1	68.9	62.5	66	75
15-Jul-25	10:30	54.9	55.9	53.8	54.6	55.8	53.4	55.0	56.0	53.8	55.2	56.8	53.9	54.9	55.9	53.8	54.7	56.0	53.4	55	75
21-Jul-25	10:35	66.7	69.0	65.5	64.4	67.0	53.1	55.2	55.7	53.6	55.0	56.6	53.7	54.6	55.6	53.6	54.5	56.0	53.1	62	75

#### **CEDD Service Contract No. EDO 12/2023**



Noise Meast	uremen	t Result	ts (dB)	of NMS	5																
	C4am4	1st	Leq (51	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (51	min)	T a a 20	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)
3-Jul-25	9:45	66.0	66.6	63.7	66.0	66.4	65.6	66.1	66.7	65.4	66.5	67.0	66.1	66.7	67.1	66.3	66.6	67.3	65.8	66	75
9-Jul-25	11:12	65.9	68.8	60.1	62.7	66.2	59.8	62.9	66.5	60.2	65.2	68.5	60.1	64.8	68.0	60.2	62.9	67.2	59.8	64	75
15-Jul-25	11:00	60.3	62.8	60.2	61.9	61.8	59.0	60.6	61.0	58.3	59.9	61.2	58.1	59.8	61.1	58.3	60.0	61.7	58.1	60	75
21-Jul-25	11:15	62.5	64.2	60.0	62.3	64.7	58.5	62.9	65.2	59.0	63.4	65.4	61.4	62.6	61.2	58.6	60.2	61.5	58.3	62	75

Noise Meas	uremei	ıt Resu	lts (dB)	of NM	S6																
	Stant	1st	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	I ag 20min	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
	1111111	$dB(\bar{A})$	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	ub(A)	dB(A)
3-Jul-25	10:40	63.2	65.6	59.1	64.5	66.3	60.4	63.7	66.1	60.0	62.6	64.8	58.7	62.9	65.2	59.5	63.4	66.9	61.0	63	75
9-Jul-25	9:40	68.4	70.5	65.5	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
15-Jul-25	10:25	65.4	68.0	62.5	65.9	68.5	62.7	67.4	69.8	62.0	67.6	70.0	63.5	66.7	68.4	63.2	65.5	68.1	62.7	67	75
21-Jul-25	10:18	66.5	68.7	63.0	65.2	66.9	63.2	65.9	68.0	62.5	66.8	69.2	64.0	67.2	68.7	65.7	67.7	70.0	64.5	67	75

Noise Meast	uremen	t Resul	ts (dB)	of NMS	57																
	Start	1st	Leq (5r	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (51	nin)	Lag20min	Limit
Date	Time	1 00	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)	ub(A)	dB(A)
3-Jul-25	9:55	63.9	65.3	57.5	64.6	66.5	58.3	64.1	66.1	58.2	65.0	67.2	59.4	63.7	65.8	57.1	63.3	65.0	57.3	64	75
9-Jul-25	9:00	65.3	67.9	59.5	61.2	65.3	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
15-Jul-25	9:42	63.2	65.0	61.2	63.4	64.7	62.0	61.9	64.1	59.8	63.5	65.7	61.0	64.2	66.5	60.9	63.3	65.5	61.3	63	75
21-Jul-25	9:25	60.5	65.2	59.5	63.4	66.3	60.5	61.8	64.7	59.8	63.8	65.7	60.0	62.6	65.0	60.6	63.5	66.6	60.2	63	75

Noise Measu	remen	t Result	ts (dB) o	of NMS	8																
	Stout	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	$dB(\bar{A})$	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	$dB(\bar{A})$	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	UD(A)	dB(A)
3-Jul-25	14:25	63.4	65.9	56.2	61.8	63.7	55.4	62.6	64.3	55.9	62.9	65.2	56.3	61.5	64.0	55.9	63.3	66.3	57.1	63	75
9-Jul-25	11:15	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
15-Jul-25	13:18	60.4	62.5	58.4	59.5	61.7	57.5	63.0	63.8	56.7	62.2	65.0	58.6	60.0	63.4	56.8	59.8	62.5	57.0	61	75
21-Jul-25	13:22	62.2	65.3	54.5	64.5	67.5	56.0	62.0	66.2	53.6	59.6	60.9	56.3	59.7	61.5	55.7	62.5	65.7	55.0	62	75

### **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 (July 2025)



### NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measu	ıremen	ıt Resul	ts (dB)	of CN3																	
	Stout	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	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)
3-Jul-25	11:05	61.4	63.0	59.1	61.2	63.5	58.5	62.2	64.5	58.9	63.3	65.7	60.4	64.9	67.6	61.0	61.5	63.5	58.9	63	75
9-Jul-25	13:45	60.9	64.5	56.9	63.5	67.0	57.0	60.5	65.0	57.4	62.9	66.5	57.4	64.8	66.7	58.1	60.9	64.8	57.2	63	75
15-Jul-25	9:40	60.2	63.0	57.1	64.0	66.9	57.5	63.3	65.2	54.2	59.8	63.2	56.0	64.4	67.5	55.5	58.9	62.2	55.8	62	75
21-Jul-25	9:45	59.0	61.5	54.0	57.8	60.7	53.8	57.5	60.0	54.3	58.6	61.8	54.9	60.5	64.7	54.3	60.9	63.9	56.0	59	75

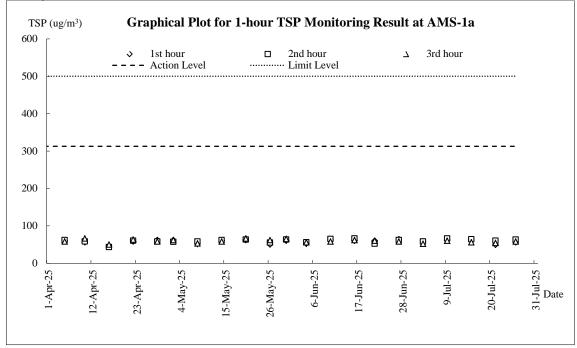


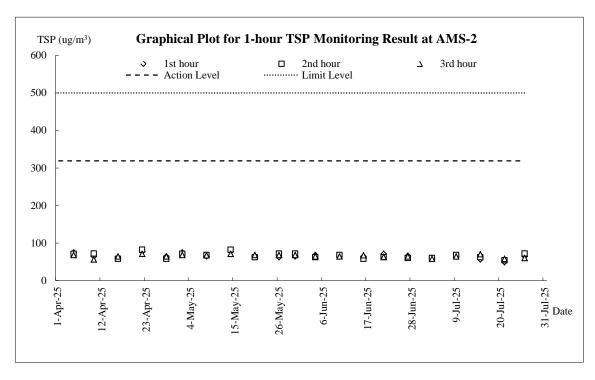
## Appendix I

**Graphical Plots for Monitoring Result** 

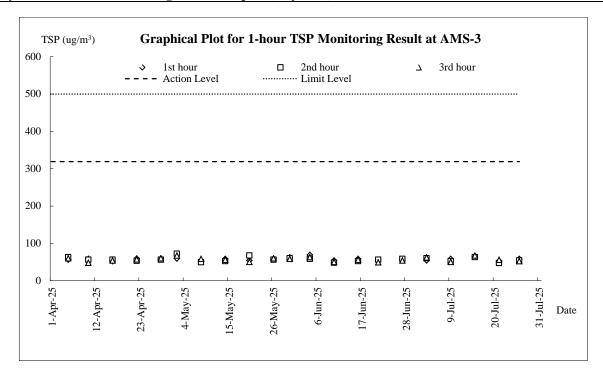


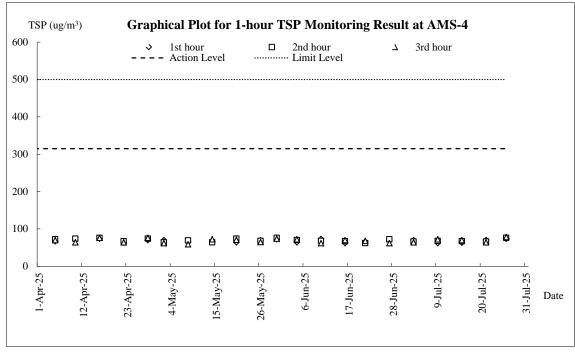




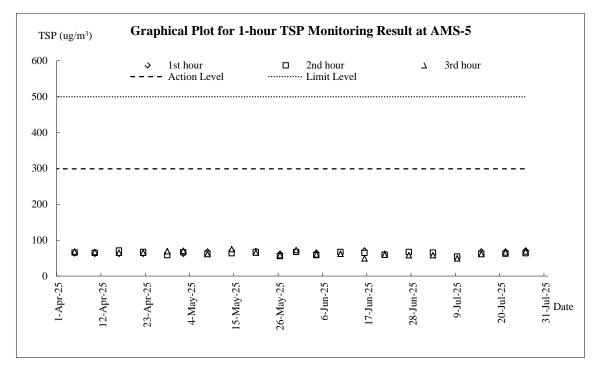


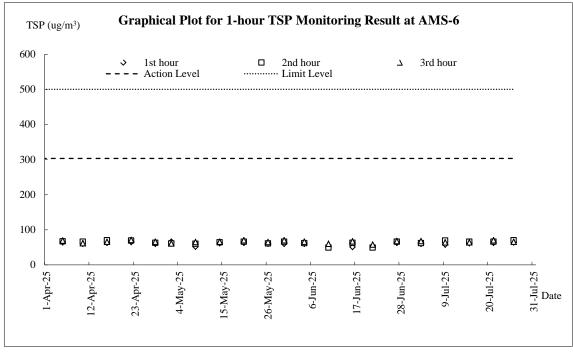




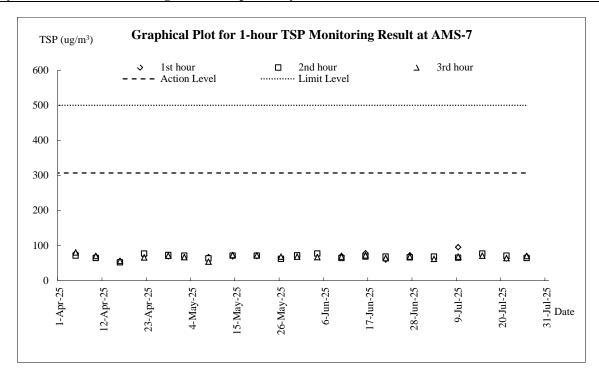






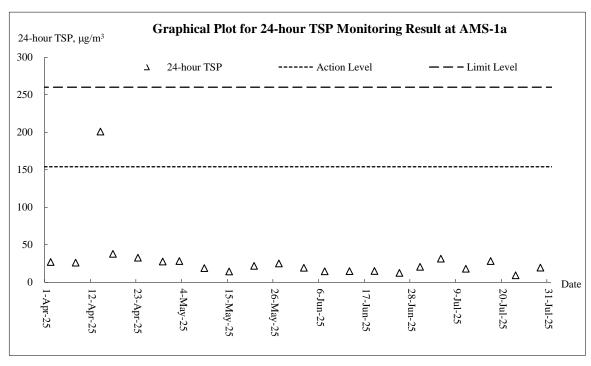


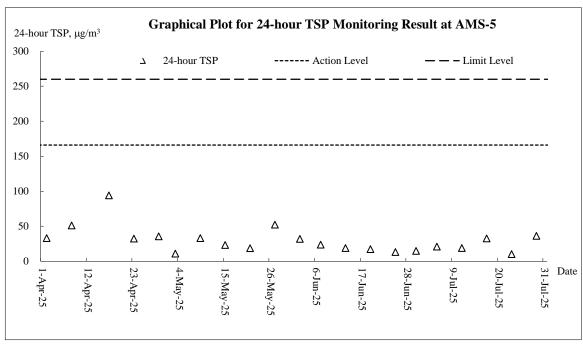




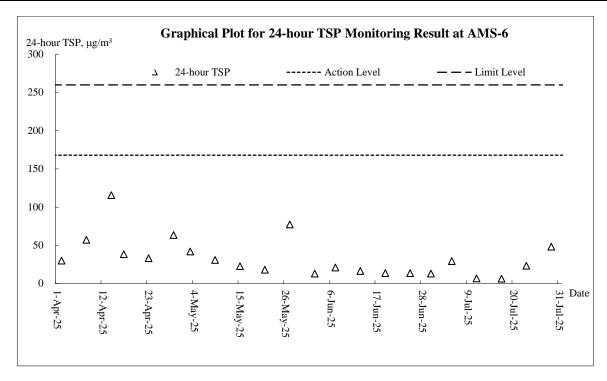


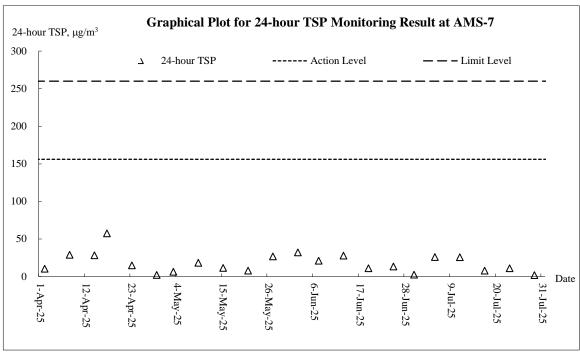
### Air Quality - 24-hour TSP

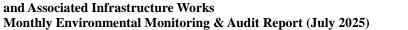






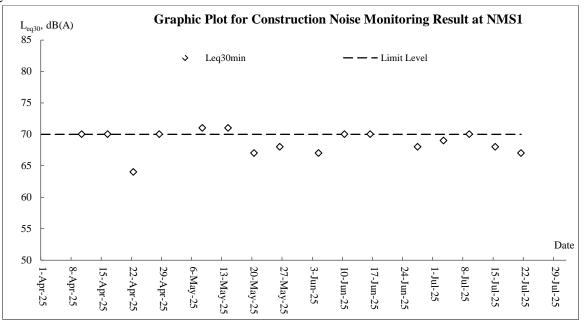


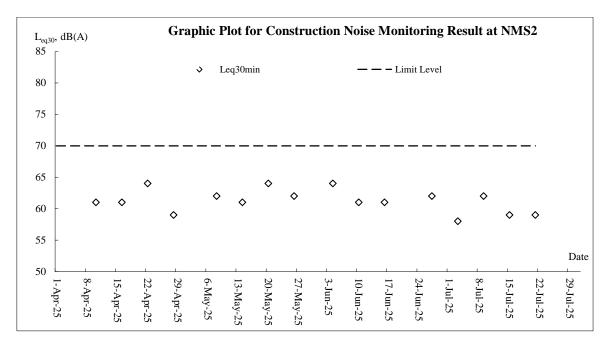




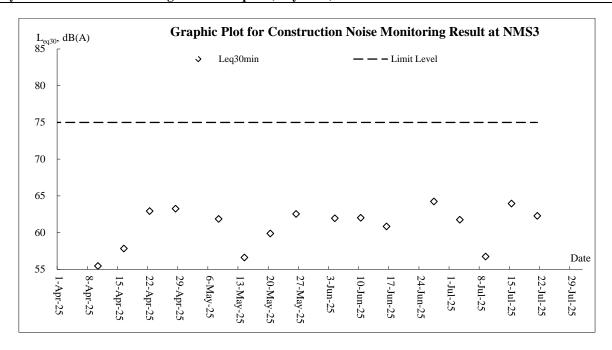


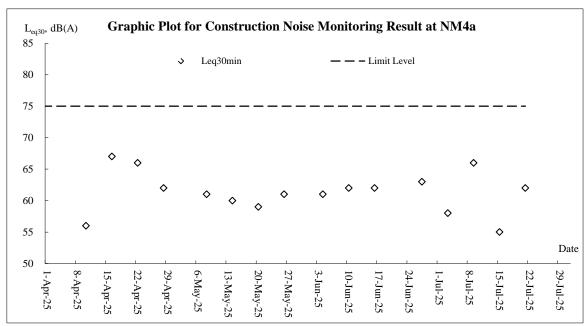
### **Noise**



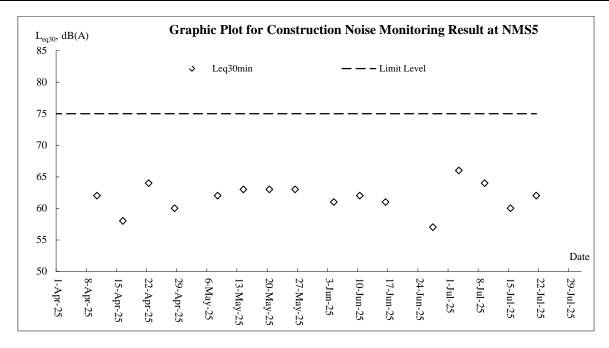


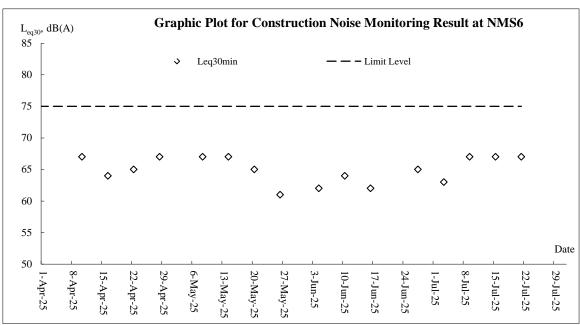




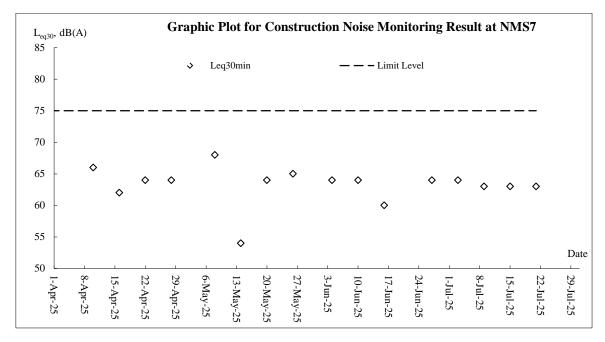


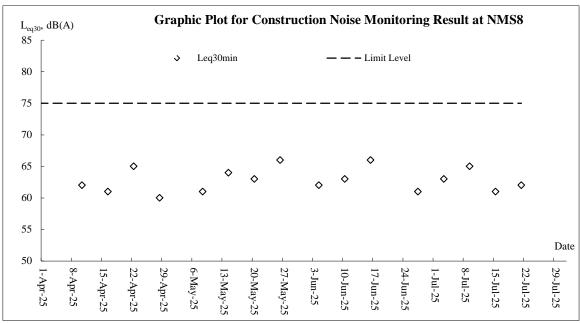




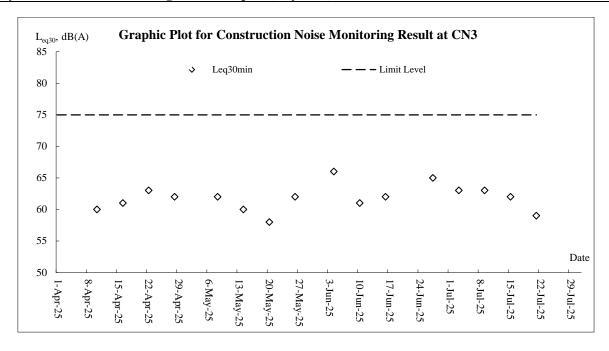














## Appendix J

**Meteorological Data** 

## CEDD Service Contract No. EDO 12/2023 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works



			Total	Kwun Tong Station	Kai Tal	k Station	King's Park Station
Date		Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Wind Direction	Mean Relative Humidity (%)
1-Jul-25	Tue	Sunny periods and a few showers.	5.5	27.8	11	E/SE	84.5
2-Jul-25	Wed	Hot. Moderate east to southeasterly winds.	0.5	28.9	17.5	E/SE	80.2
3-Jul-25	Thu	Mainly fine apart from isolated showers. Very hot.	0	29.4	9.5	E/SE	75
4-Jul-25	Fri	Very hot. Moderate east to northeasterly winds.	0	29.9	11.2	E/SE	71.2
5-Jul-25	Sat	Sunny periods and a few showers.	3.7	30.8	15.5	E/SE	69
6-Jul-25	Sun	Very hot. Isolated thunderstorms later.	0	31	11.7	W/SW	70
7-Jul-25	Mon	Very hot with sunny periods	0	32	12	W	77.5
8-Jul-25	Tue	Very hot with sunny periods.	0	31.2	14.2	W	76.2
9-Jul-25	Wed	Very hot with sunny intervals	15.2	28.4	10.7	W	78
10-Jul-25	Thu	Mainly cloudy with occasional showers and squally thunderstorms.	126.4	26.3	11.2	W/NW	92
11-Jul-25	Fri	Mainly cloudy with a few showers.	0	28.1	6.2	W/SW	85
12-Jul-25	Sat	More showers with a few squally thunderstorms	38.4	28.4	10.5	S/SE	86.2
13-Jul-25	Sun	Sunny periods and a few showers.	1.9	30.8	7	S/SW	76.7
14-Jul-25	Mon	Very hot. Moderate southwesterly winds.	9.2	30	7.5	W/SW	78.7
15-Jul-25	Tue	Sunny periods. Very hot.	3.2	29.9	9	W/SW	81.7
16-Jul-25	Wed	Mainly fine. Very hot	0	31.2	10	W/SW	76.5
17-Jul-25	Thu	Mainly fine. Extremely hot with isolated showers	0	32.1	5	W	75.5
18-Jul-25	Fri	Mainly cloudy and very hot with sunny intervals.	19	28.8	15	W/NW	86.2
19-Jul-25	Sat	Moderate to fresh southeasterly winds.	10	29.8	18.5	W/NW	77.5
20-Jul-25	Sun	Cloudy with occasional showers and squally thunderstorms.	87.6	26.5	36	E/SE	91.2
21-Jul-25	Mon	Moderate to fresh southeasterly winds.	42.4	26.8	10.5	E/SE	92.5
22-Jul-25	Tue	Mainly cloudy with a few showers	95.7	27.8 .	16	E/SE	83
23-Jul-25	Wed	Mainly cloudy with a few showers.	2.6	28.8	11.2	SE	78.7
24-Jul-25	Thu	Mainly fine. Very hot	Trace	30.2	8.7	W/SW	72.2
25-Jul-25	Fri	Mainly fine. Very hot	31.8	29	8.2	W/SW	76.7
26-Jul-25	Sat	More showers with thunderstorms later.	0	30.8	8.2	W/SW	71.7
27-Jul-25	Sun	Moderate southwesterly winds.	0	30.6	11.2	W/SW	74.7
28-Jul-25	Mon	Sunny intervals and a few showers. Very hot	0.6	30.7	11.5	W	80
29-Jul-25	Tue	Mainly cloudy with occasional showers and squally thunderstorms.	106.5	26.7	13	W/NW	91.2
30-Jul-25	Wed	Mainly cloudy with a few showers.	0	30.3	8	W/NW	83.2
31-Jul-25	Thu	Mainly cloudy and hot.	1.5	30	10	W/SW	85.5



## Appendix K

**Waste Flow Table** 

**Contract No.: ED/2020/02** 

## **Monthly Summary Waste Flow Table for 2025**

	Actual (	Quantities of	Inert C&D	Materials G	Senerated M	onthly	Actual Q	Quantities of	C&D Waste	s Generated	l 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 <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )**	(in '000 m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m <sup>3</sup> )*
Jan	3.641	0.000	0.000	0.000	3.641	0.000	0.000	0.000	0.000	0.000	0.065
Feb	1.533	0.000	0.000	0.000	1.533	0.000	0.000	0.000	0.000	0.000	0.071
Mar	1.216	0.000	0.000	0.000	1.216	0.000	0.000	0.000	0.000	0.000	0.099
Apr	1.028	0.000	0.000	0.000	1.028	0.000	0.000	0.000	0.000	0.000	0.045
May	2.226	0.000	0.000	0.000	2.226	0.000	0.000	0.000	0.000	0.000	0.056
June	3.303	0.000	0.000	0.000	3.303	0.000	0.000	0.000	0.000	0.000	0.068
July	2.145	0.000	0.000	0.000	2.145	0.000	0.000	0.000	0.000	0.000	0.181
Aug											
Sep											
Oct											
Nov	 							T			
Dec			— —					T	<i></i>       	r	
Total	15.091	0.000	0.000	0.000	15.091	0.000	0.000	0.000	0.000	0.000	0.585

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

\*\* Conversion factor for general fill, 2 tonne = 1m³

# Estimation for next month



## **Appendix** L

Implementation Schedule for Environmental Mitigation Measures



		Objectives of the	W/h a 4 a			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	Dust Impact (Contraction 1	Phase)			1			<del>_</del>	
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 <sup>2</sup> 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 material 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 takes place and the road sect ion between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;  • When there are open excavation and reinstatement	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	@	@	@	@	@



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	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;								
	<ul> <li>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;</li> </ul>								
	<ul> <li>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;</li> </ul>								
	Any skip hoist for material transport should be totally enclosed by impervious sheeting;								
	<ul> <li>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;</li> </ul>								
	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,								



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	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	<ul> <li>Implement the following good site management practices:</li> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme;</li> <li>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;</li> <li>plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable; and</li> <li>material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	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



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status					
					Contract 1	Contract 2	Contract 3	Contract 4	Contract 5	
		within the same work site to reduce the construction airborne noise		ion sites where practicable						
S5.6.34	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.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected Representative Noise monitoring stations	V	N/A	V	N/A	N/A	
В	Water Quality Impact (Cor									
S6.6.3	<ul> <li>Construction Runoff         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:         <ul> <li>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.</li> <li>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.         </li> </ul></li></ul>	Control construction runoff	Contractor	All construction sites	@	@	@	@	V	



EM&A Ref.		Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status					
						Contract	Contract 2		Contract 4		
	•	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	Concern to Address	ineasures.		1	2	3	4	5 S	
	•	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									



EM&A Ref.		Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status					
						Contract 1	Contract 2	Contract 3	Contract 4	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 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									
	•	system downstream of any on/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.									



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



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	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 and 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



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address  Concern to Address  Min to implement the measures?		Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	discharged into the foul sewers.								
	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.								
70.7.2	Waste Management (Contr		La	1			1		1
\$8.5.2	<ul> <li>Good Site Practice</li> <li>The following good site practices are recommended throughout the construction ion activities:         <ul> <li>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;</li> <li>training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;</li> <li>provision of sufficient waste disposal points and regular collect ion for disposal;</li> <li>appropriate measures to minimize windblown litter</li> </ul> </li> </ul>	Minimize waste generation during construction	Contractor	All construction sites	V	@	V	@	V
	<ul> <li>and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </ul>								



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
	(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.);  • provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.	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	Collection and Transportation of Waste The following recommendation should be implemented to minimize the impacts:	Minimize waste impacts from storage	Contractor	All construction sites	V	@	V	@	@

### **CEDD Service Contract No. EDO 12/2023**



TERM O. A		Objectives of the	Who to	Leasting of the		Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	<ul> <li>remove waste in timely manner;</li> <li>employ the trucks with cover or enclosed containers for waste</li> <li>transportation;</li> <li>obtain relevant waste disposal permits from the appropriate authorities; and</li> <li>disposal of waste should be done at licensed waste disposal facilities.</li> </ul>								
S8.5.8	Excavated and C&D Material Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public filling areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials:  • maintain temporary stockpiles and reuse excavated fill material for backfilling; • carry out on-site sorting; • make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • implement a recording system for the amount of waste generated, recycled and disposed of for checking;  The recommended C&D materials handling should include: • On-site sorting of C&D materials • Reuse of C&D materials • Use of Standard Formwork and Planning of Construction Materials purchasing • Provision of wheel wash facilities	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	V	V
S8.5.15	Contaminated Soil As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	Remediate contaminated soil	Contractor	All construction sites where applicable	V	V	N/A	N/A	N/A
S8.5.17	<u>Chemical Waste</u>	Control the chemical	Contractor	All construction	V	V	V	V	V



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	mended Mitigation Measures  Recommended Measures & Main Concern to Address  implemented Concern to Address		Location of the measure	Contract	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					
S8.5.18	General Waste     General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.     Preferably enclosed and covered areas should be provided for general refuse collect ion and routine cleaning for these areas should also be implemented to keep areas clean.     A reputable waste collector should be employed to remove general refuse on a daily basis.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	(9)	V	V	V	@
S8.5.19	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	e)							
S. 10.7.2 to 10.7.6	Re-provision of Wooded Area for ecological function at the future Quarry Park.	Compensate for the loss of three woodland patches of a total area of about 1.13ha.	Contractor/ Detailed Design Consultant (qualified botanist / horticulturist / Certified Arborist to supervise the planting).	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	N/A	N/A



		Objectives of the Who to	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
.10.7.10	Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include:  Temporary sewerage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses;  Proper locations well away from nearby watercourses will be used for temporary storage of materials (i.e. equipment, fill materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works;  To prevent muddy water entering nearby watercourses, work sites close to nearby watercourses will be isolated, using such items as sandbags or silt curtains with lead edge at bot tom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the works site;  Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses;  Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses;  Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses;  Exposed soil will be covered as quickly as possible following format ion works, followed, where appropriate, by covering with biodegradable geotextile blanket for erosion control purposes;  Where appropriate, earth-bunding will be carried out 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.	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V	V	N/A



		Objectives of the	Who to		Implementation of the		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
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	Minimize impacts on	Contractor	All construction	N/A	N/A	N/A	N/A	N/A
5.10.7.11	construction phase and the plan will include, but not be limited to, the following:  • Potential emergency situations; • Chemicals or hazardous materials used on-site (and their location); • Emergency response team; • Emergency response procedures; • List of emergency telephone hot lines; • Locations and types of emergency response equipment, and • Training plan and testing for effectiveness.	Hydrological condition and water quality of hillside watercourses.	Contractor	sites	IV/A	IV/A	IV/A	IV/A	IV/A
	Landscape and visual (Con					T			
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 <u>LAO GN No. 7/2007</u> , <i>ETWB TCW No. 29/2004</i> and <i>10/2013</i> . Final locations of transplanted trees shall be agreed prior to commencement of the work.	Minimize landscape impact and retention of landscape resources	Detailed Design Consultant /	Onsite where possible. Otherwise consider offsite locations	*	N/A	N/A	V	V



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the	Implementation Status					
Kei.	_	Measures & Main Concern to Address  Measures?		measure	Contract	Contract	Contract	Contract	Contract	
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; w = partially implemented; x = pending to be implemented; x = not implemented;



Appendix M

**Complaint Log** 



Appendix M1 Cumulative Complaint and Summons/ prosecution

Monthly Environmental Monitoring & Audit Report (July 2025)

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

### **CEDD Service Contract No. EDO 12/2023**

 $\label{lem:condition} \textbf{Environmental Team for Development of Anderson Road Quarry Site-Site Formation and Associated Infrastructure Works}$ 



Monthly Environmental Monitoring & Audit Report (July 2025)

April 2021	1	0
May 2021	0	0
June 2021	1	0
July 2021	1	0
<u> </u>	0	0
August 2021	2	
September 2021 October 2021	0	0
November 2021	0	0
December 2021		0
	0	
January 2022		0
February 2022	0	0
March 2022	1	0
April 2022	1	0
May 2022	3	0
June 2022	2	0
July 2022	0	0
August 2022	2	0
September 2022	1	0
October 2022	1	0
November 2022	0	0
December 2022	0	0
January 2023	0	0
February 2023	0	0
March 2023	0	0
April 2023	0	0
May 2023	1	0
June 2023	0	0
July 2023	1	0
August 2023	0	0
September 2023	0	0
October 2023	0	0
November 2023	0	0
December 2023	0	0
January 2024	1	0
February 2024	0	0
March 2024	0	0
April 2024	1	0
May 2024	2	0
June 2024	0	0
July 2024	0	0
August 2024	0	0
September 2024	1	0
October 2024	0	0
November 2024	0	0
December 2024	1	0
January 2025	1	0
February 2025	1	0
March 2025	0	0
April 2025	0	0
May 2025	0	0

#### **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 (July 2025)

June 2025	0	0
July 2025	0	0
Overall Total	91	0



### Appendix M2 Complaint Log

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



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
4	21-Jun-1 7	29-Aug-1 7	Tat Yan House, Po	Residen t of Po Tat Estate	C	EPD			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	29-Aug-1 7	Tat Yan House, Po	Residen t of Po Tat Estate	Dust & Construction noise		N08/RE/	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	
6	15-Jul-17	29-Aug-1 7	Tat Y1 House Po	Residen t of Po Tat Estate	Construction	EPD	EPD (ref.N08/ RE/0002 2479-17)		CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	by IEC on 3 Nov	TCS00864/ 16/300/F00 94
7	28-Jul-17	29-Aug-1 7	Anderson Road	unknow n	Dust	EPD	EPD (ref.N08/ RE/0002 3986-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident and status of the implementation of dust mitigation measures was considered effective based on the site observation.		TCS00864/ 16/300/F00 97



Log ref.	Compiai	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
8	2-Aug-17		Chun Tat House, On	Residen t of On Tat Estate	Construction noise	EPD	EPD (ref.N08/ RE/0002 4557-17)	Day time construction noise of breakers (8AM to 6PM)	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in August 2017, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should further enhance the noise mitigation measures as appropriately. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.		TCS00864/ 16/300/F00 98
9	19-Sep-1 7	19-Sep-1 7	Sau Mau Ping Estate Sau Nga House	Residen t of Sau Mau Ping Estate	Construction noise	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	& 2) During the course of noise	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	Residen t of Sau Mau Ping Estate	C	EPD	EPD (ref.N08/ RE/0003 1074-17)	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	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 3-( )ct-1	Chun I at House, On		Construction noise	EPD	RE/0002	The complainant questioned why there were 6 to 7 breakers operating in the monring but only 1 operating in the afternoon. He requested to shift the operation of the breakers to afternoon.	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in September and October 2017,	no	TCS00864/ 16/300/F01 06
12	3-Oct-17	13-Oct-1 7	House, On	lt ot ( In	Construction	EPD	N08/RE/	Day time construction noise, the complainant requested using less breaker at one time, erecting taller noise barrier to cover the equipment. In addition, the complainant would like to know the construction schedule whether there will be more breaking activities in near future	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.		TCS00864/ 16/300/F01 06
13	25-Oct-1 7	26-Oct-1 7		Residen t of Po Tat		EPD	NA	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.	Compiai			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Estate				及回覆	nearby resident. Nevertheless, based on the observation during site inspection on 31 October 2017, CWSTVJV was advised to enhance the dust mitigation measures particularly during dry season.	15 Nov 2017	
14	6-Nov-17	7-Nov-17	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開始傳出機器不停堰石的噪音(幾乎每日在	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		TCS00864/ 16/300/F01 09
15	13-Nov-1 7	14-Nov-1 7	House, On			SPRO hotline	NA	分仍然常開,影響居民正常睡眠質素,照成一定的	To ease the concern by the complaint, CWSTVJV has adjusted the lights to the orientation pointing the ground and that to minimise the nuisance. For the maintenance of noise barrier, CWSTVJV has immediately fixed the noise barrier	by IEC on 24 Nov 2017	TCS00864/ 16/300/F01 04



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
16	1-Nov-17	114-NOV-1	Shing Tat House, On Tat Estate	t ot Do	Noise	EPD	NA	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.		TCS00864/ 16/300/F01 10
17	25-Aug-1 7	7	House, Sau		Construction Noise	EPD	EPD (ref.N08/ RE/0002 7738-17)	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.	Compiai	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 at ( )n	Construction Noise	EPD	EPD (ref. N08/RE/ 0002948 9-17)	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.		TCS00864/ 16/300/F01 17
19	15-Dec-1 7	21-Dec-1 7	Sau Yee	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	21-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		CE's office	NA	日間及凌晨均聽到轟隆聲	ET has conducted an ad-hoc noise measurement for Leq (30min) in the	no comment	TCS00864/1 6/300/F0129



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Mau Ping Estate				先生表示居於所有 養樓,指不工程等的 時段人則 一轄的程子。 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人間 一時的人類 一時的人類 一時的人類 一時的人類 一時的人類 一時的人類 一時的人類 一時的人類 一時的人類 一時的人 一時的 一時的人 一時的 一時的 一時的 一時的 一時的 一時的 一時的 一時的	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	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	by IEC on 8 Feb	TCS00864/1 6/300/F0130



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



Log ref.	Date of Complai nt		Complaint Location	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,堅持環保署跟地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.	by IEC on 19 Mar 2018	TCS00864/ 16/300/F01 43
26	11-Apr-1 8	12-Apr-1 8	Him Tat House of On Tat Estate	Residen t of Him Tat House	Construction Noise	SPRO mobile	NA	Mr. Hui Yau Wai reported that the noise irritation was becoming more severe recently and asked about the completion date of the works close to Him Tat House. The resident suspected that the noise comes from piling works 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	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b



Log ref.	Date of Complai nt	Receive		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	7-May-1	Junction of Hiu Kwong Street and Hiu Ming		Noise	EPD		This case is considered a Programme.	s an enquiry and no investigation is req	quired under	the EM&A
28	18-May- 18	24-May-	Anderson Road Quarry Site	Undiscl osed	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.	by IEC on 30 July	TCS00864/ 16/300/F01 74b
29	25-Jun-1 8		Connectively E8 under	Kwun Tong DC membe r Ms.	Waste Management	CEDD	NA	A public complaint was referred from CEDD on 4 July 2018 regarding accumulation of dead	CW-CMGC-JV has immediately clear the dead leaves and maintain the site cleanliness. Since the construction work	by IEC on	TCS00864/ 16/300/F01 89b



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	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	Residen t of 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 方向行車人口因配合項目 需要而進行移除山坡工 程,但其鑽地鑿石的噪音 嚴重影響藍田康雅苑*居 民,要求有關部門跟進。* 註:投訴人於 2018 年 8 月	to reduce the inconvenience caused to the nearby resident, Kwan On should properly maintain the noise mitigation measures as appropriate, such as maintain good site practice including intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on 7 Sep	TCS00864/ 16/300/F01 96a
31	28-Aug-1 8	31-Jul-18	Anderson Road Quarry Site	Undiscl osed	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	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.	by IEC on	TCS00864/ 16/300/F01 97a



Log ref.	Complai	RACAIVA	_	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	Residen t of 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.	Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. As advised by Kwan On, the rock breaking works shall tentatively be completed by end of December 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. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on	TCS00864/ 16/300/F02 01
33	24-Oct-1 8	25-Oct-1 8	E3	Kwun Tong DC membe r Ms. So Lai-chu n	Noise Noise	Whatsap p Message		KTDC member, Ms. Ann So, complaining the noise of the breaker at E3	As advised by the Contractor, the acoustic material wrapped on the breaker was worn-out on 24 October 2018 and replacement of new acoustic materials has been installed on the breaker immediately on 25 October 2018. The rock breaking works shall tentatively be completed to the road level in the middle of November 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. It is considered the complaint was an isolate case.	by IEC on	TCS00864/ 16/300/F02 09a
34	12-Nov-1 8	13-Nov-1	Anderson Road Quarry Site	Residen t of ChingT at House(r eferred		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.		TCS00864/ 16/300/F02 22a



Log ref.	Date of Complai nt	Docoivo		Compl ainant	Complaint nature	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		Undiscl osed	Light and Noise	EPD	NA	燈正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	14-Nov-1	Road (hiarry	Undiscl osed	Noise and dust	1823	NA	postpone the starting time of construction work at project site and also to solve the problem of	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	by IEC on	TCS00864/ 16/300/F02 24



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 satisfied with the reply. Investigation Report has been completed by ET without comment from IEC.		
37	9-Dec-18	12-Dec-1	Anderson Road Quarry Site	Undiscl osed	Construction noise	1823	2-492790 7305	2018, which the complainant complained that construction noise was generated from project site on Sunday and was affecting the resident at Hau Tat House, On Tat Estate. The complainant	In our investigation based on the information provided by CWSTVJV, there was no site activities undertaken at site access road as concerned by the complainant. The construction work carried out on Sunday was fully compliance with the CNP requirement. In response to the complaint, CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.		TCS00864/ 16/300/F02 30a
38	19-Dec-1 8	17/ 1 AC 1	Road (hiarry	Undiscl osed	Construction noise	1823	2-494807 4127	complainant complained that noise barriers near the round-about at On Sau Road were not enough, and construction noise generated from the project site was affecting the resident at Ming Tai House, On Tai Estate. The complainant requested follow up actions from related department as soon as possible	mat and wrapped by acoustic materials are implemented on site. However, CWSTVJV was advised to extend the coverage of noise barrier as far as practicable and fully enclose the concerned works area which has been completed on 15 January 2019. Since the works were	comment by IEC on 31 Jan	TCS00864/ 16/300/F02 37a



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
39	24-Jan-1 9	29-Jan-1 9	Anderson Road Quarry Site	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	In our investigation, the concerned catchpit and U-channel mainly received the runoff from Po Lam Road as well as the discharge 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 accessible. Nevertheless, in order to protection the watercourse at downstream of the construction site, CWSTVJV has some enhancement measures.		TCS00864/ 16/300/F02 48a
40	30-Jan-1 9		Anderson Road Quarry Site	Undiscl osed	20100	SPRO hotline	NΑ	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.	In our investigation, CWSTVJV had provided the noise mitigation measures to minimize the noise impact to the resident nearby. The impact monitoring result obtained at Ma Yau Tong Village revealed that the construction noise were within acceptable level. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement.		TCS00864/ 16/300/F02 49a
41	15-Feb-1 9	25-Feb-1	Anderson Road Quarry Site	Undiscl osed	noise	1823	2-494807	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	by IEC on 29 Mar	TCS00864/ 16/300/F02 51a



Log ref.	Compiai	Receive	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								for the details of works and the completion date, the complainant also requested CEDD to use other construction methods in order to re  The resident from Sau			
42	21-Feb-1 9	25-Feb-1	Anderson Road Quarry Site	Undiscl osed	noise	EPD	NA	Anderson Road Quarry construction site has gotten worse. In addition, sometimes even after midnight there are noise coming from the site. With the echo produces from the environment, this is not helping at all. Really a big disturbance to the residence in the area. The complainant suspecting the sound proof	In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate, such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.erway by ET.		TCS00864/ 16/300/F02 50



Log ref.	Compiai	Docoivo		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	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	Additional acoustic mat has been erected in front of the Squatter Area to minimize the noise impact. Noise mitigation measures such as acoustic barriers erected along the 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, CWSTVJV had enhanced the noise mitigation measures to ease the complainant's concerns. CWSTVJV will continually implement the noise mitigation measures to reduce to noise impact to the public.		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.	The representative of the engineering team explained to Mr. Cheng about the project's details and concerned site was being constructed for the future pedestrian connection facilities. The related stone drilling process is expected to be completed in mid-April to end of April 2019. Mr. Cheng was satisfied with the rapid response from CEDD and the engineering team. In our investigation, Kwan On 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.	by IEC on	TCS00864/ 16/300/F02 64



Log ref.	Compiai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
45	16-Jun-1 9	18-Jun-1 9	Anderson Road Quarry Site	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.	construction site on the concerned day. Since the work did not involve the use of Powered Mechanical Equipment (PME), it would not violate the poice control		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 July 2019 in typical rainy season in Hong Kong and the dust impact was considered	by IEC on 12 August 2019	TCS00864/ 16/300/F02 92b



Log ref.	Date of Complai nt	Docoivo	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.		TCS00864/ 16/300/F03 10a
48	15-Oct-1 9	18-Oct-1 9	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchange Pedestrian Connectivity Facilities E12)		Noise	1823	NA	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	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.	by IEC on 13 Nov	TCS00864/ 16/300/F03 26a



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	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.	by IEC on 27 Dec	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.	by IEC on 27 Dec	TCS00864/ 16/300/F03 33a



Log ref.	Compiai	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
51	10-Nov-1 9	12-Nov-1 9	Underpass	Undiscl osed	Noise	EPD	NA	將來廸車,相信噪首不只 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	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of 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 will follow up the concern.	no comment by IEC on 30 Dec	TCS00864/ 16/300/F03 37



Log ref.	Date of Complai nt	Docoivo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
52	11-Nov-1 9	20-Nov-1 9	Construction site near on Tai Estate Ancillary Facilities Building on On Sau Road	Mr. Wong (residen t of Yung Tai House of On Tai Estate)	Noise	1823	3183	November 2019, the project hotline received a call from the same complainant reported on the noise nuisance near On Sau Road and On Yan Street. He suggested to speed up the noise making works by intensely	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	TCS00864/ 16/300/F03 38a
53	5-Mar-20	6-Mar-20	Tunnel work of Anderson Road Quarry Site (the Underpass)	t of On	Noise	EPD	NA	低音,希望能加装隔音設備,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.	comment	TCS00864/ 16/300/F03 57a



Log ref.	Compiai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								mentioned that the noise from construction was improved before but it became serious recently.			
54	4-Mar-20	17-Mar-2 0		Undiscl osed	Noise	1823	ref. 3-628323 7171	不斷發出強烈的嘈音,投訴人表示地盤是在曉明街藍球場旁邊的位置(投訴人未能告知確實街號),因此要求部門盡快回覆及告知有關情況。 A public complaint was received by 1823 on 4 March 2020 regarding the construction noise. The complainant mentioned that there were	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		TCS00864/ 16/300/F03 59a



Log ref.	Date of Complai nt	Docoivo	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)	Undiscl osed		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	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	TCS00864/ 16/300/F03 60a
56	17-Mar-2 0	19-Mar-2 0	Anderson Road Quarry Site	Residen t of Yan Tat House	Noisa	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	In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. 5. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	by IEC on	TCS00864/ 16/300/F03 61a



Log ref.	Date of Complai nt		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	20-Apr-2 0	Work Area Portion 2	Undiscl	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)	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.		TCS00864/ 16/300/F03 66a



Log ref.	Compiai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								noise mitigation measures to alleviate the noise impact arising from the construction work.			
58	11-May- 20		Work Area Portion 2	Undiscl osed	Noise	Project hotline	NA	public complaint was received by Project Hotline on 11 May 2020 regarding the noise generated from rock breaking work from a construction site opposite to Tsui Yeung House, which affecting his mother's health. The complainant enquired about the completion date of construction work		comment	TCS00864/ 16/300/F03 70a



Log ref.	Date of Complai nt	Doggivo		Compl ainant	Complaint nature	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	by IEC on	TCS00864/ 16/300/F03 91a
59#	23-Jul-20		Anderson Road Quarry Site near On Tat Estate		Noise	EPD	NA	generated from the use of PME at Anderson Road Quarry Site near On Tat Estate at 6:30am (restricted	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. Nevertheless, as the construction site is	comment by IEC on	



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								relevant department to follow up.	close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme		
60	14-Nov-2 0	18-Nov-2 0	_	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	by IEC on	TCS00864/ 16/300/F04 24
61	4-Dec-20	7-Dec-20	Opposite to On Tai Estate – lower portion of Road L4		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	by IEC on	TCS00864/ 16/300/F04 34
62	3-Dec-20	7-Dec-20	Ma Yau Tong Village (East Portal)	Undiscl osed		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	Receive	-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	ll og ref	Date of Complaint
								dust and noise impact arising from the project. There were acoustic mats erected on the slope of East		4 January 2021	
63	7-Jan-21	7-Jan-21	System B	Residen t of Yan Tat House		Project hotline	NA	A public complaint was referred by district Councillor Mr. HSU Yau-wai and received by project hotline on 7 January 2021 regarding the construction noise. The complainant mentioned that the construction site next to SKH St. John's Tsang Shiu Tim Primary School generated noise problem and she requested	considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the	by IEC on	TCS00864/ 16/300/F04 41



Log ref.	Complai	Date of Receive d by ET		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
64	18-Mar-2 1	18-Mar-2 1	Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	osea	Noise	1823 & EPD	NA	A public complaint was received by 1823 and referred by EPD on 18 March 2021 regarding the construction noise 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 noise disturbance to the nearby resident and he/ she requested relevant department to follow up	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 1 April 2021	TCS00864/ 16/300/F04 54
65	1-Apr-21	1-Apr-21	Construction site near SKH St. John's Tsang Shiu Tim Primary School (System B under Contract 3)	Undiscl osed	Noise	EPD	NA	A complaint was received 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 construction site	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Moreover, the Contractor has adopted noise mitigation measures to minimise noise impact to the public. Since the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment	TCS00864/ 16/300/F04 58a



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
66	28-Mar-2 1	30-Mar-2 1	Road Quarry Site (between On Tat Estate and On Tai	Fung House of On	Noise	EPD	K13/RE/ 0000708 6-21	A public complaint was received by EPD on 28 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site until 9pm on Monday to Saturday. Moreover, the complaint concerned about the construction noise heard on 28 March 2021 which was a Sunday.	In our investigation, CWSTVJV had followed that CNP for work during restricted hour and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, some site areas had been handed over to other contract and construction noise generated from others is not controlled by the project. As a reminder, CWSTVJV should implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	by IEC on	TCS00864/ 16/300/F04 59
67	11-Jun-2 1	1	Anderson Road Quarry Site	Residen t of Chi Tat House, On Tai Estate	Noise	EPD	EPD Ref.: 13208-21	A public complaint was received by EPD on 11 June 2021 and complained about noise nuisance from multiple construction sites on Anderson Road Quarry Site. The complainant stated that there were noise nuisances from different construction sites from 0800 am to 1800 pm from Monday to Saturday without adequate noise	6. 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 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 legislative requirement.	no	TCS00864/ 16/300/F04 78a



Log ref.	Date of Complai nt	Receive	-	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		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-	Anderson Road Quarry Site	DSD	Water Quality	EPD	NA	of muddy water as found at the catchpit SCH4003250 near Po Lam Road and	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.	Compiai	Receive		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		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	1 // /\ nr/ /	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		TCS00864/ 16/300/F05 40



Log ref.	Complai	RACAINA		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	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	12 April 2022 and observed discharge of muddy water at public drainage system. The case was then referred to	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.		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	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.		TCS00864/ 16/300/F55 9
74	17/May/2 022	30/May/2	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 14 and 16 May 2022 concerning about muddy water	Heavy rain led to large amount of storm runoff from roads and landscape into the	by IEC on 13 June 2022	TCS00864/ 16/300/F56 2a



Log ref.	Date of Complai nt	Receive	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
75	27/May/2 022		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	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.	the water quality in the drainage system.  Besides, there were several construction sites at upstream of Tsui Ping River. It is	No comment by IEC on 13 June 2022	TCS00864/ 16/300/F56 3
76	6, 7, 8/J un/2022	1, 8, 9/J	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	Ping River this morning at the upstream near junction of Kai Lim Road and Tsui Ping Road. The situation has persisted over 50 mins. Furthermore, muddy water was observed entering Tsui	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 complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.		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	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.	Compiai	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.		
78	8/Aug/20 22	′ )′ )	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	DSD advised EPD that muddy water was observed entering Tsui Ping River in the morning of 8 August 2022, with similar situation at Tin Hau Temple and Po Lam Road	discharge was evident in the morning or	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 0
79	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	2022 & 3	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD		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 2022	TCS00864/ 16/300/F59 3



Log ref.	Date of Complai nt	Doggivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								procedure in EM&A Manual.	discharge from ARQ Site was evident in the morning of 29 and 30 September 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 29 and 30 September was unlikely to have been caused by the ARQ contracts of C1 or C4.		
									During wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the discharge quality from the Site to avoid non-compliance. The ET will pay special attention on water quality mitigation measures implementation on site through regular site inspection, and give advice on remedial action when necessary.		
									Incidentally, it is noted that Site R2-9 has kept discharging muddy water to downstream manhole D310. Record photos of the manhole dated 6, 7 and 8 October 2022 are enclosed for reference.		
81	18/Oct/ 2022	20/Oct/ 2022	Anderson Road Quarry (ARQ) Site	DSD	Dust Quality	Referred by 1823 to EPD		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 ref.	Compiai	Doggivo	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	close to the residential area, both the Contractors were reminded to implement the mitigation measures as far as practicable as recommended in the EM&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 <sup>th</sup> 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.	or Contract A	Sent to EPD on 29 May 2023	TCS00864/ 16/300/F64 3



Lo ref	- IC OHIDINAL	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
83	4 July 2 023	4 July 2 023	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	from the upstream in the morning of 4 July 2023,	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 Road Quarry	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	implementation of water quality mitigation measures on site through regular site inspections, and provide advice on remedial action when necessary.  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 2024	TCS00864/ 16/300/F68 4a



Log ref.	Date of Complai nt	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								· · · · · · · · · · · · · · · · · · ·	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 from the upstream on 23 and 26 April 2024, with similar situation at the catchpit at Tin Hau Temple.	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	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									before discharge to the designated discharge points.		
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.	functioned.  - 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		from DSD concerning muddy water was observed	environmental performance. The implementation of mitigation measures were summarized below:	Sent to	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.	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



Lo	TERRETAIN A		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	20 Dece mber 20 24	Anderson Road Quarry (ARQ) Site	Public	Dust and Muddy Water	EPD	NA	成條街道沙塵滾滾和大量 泥水流出地盤,直接流到 外面雨水渠。大型地盤離 輛,泥頭車無洗道沙塵 建築物料沒有掩蓋滾 吹到成條街沙塵經 被操作時未直 地盤工人沖刷泥。 A public complaint was referred by EPD on 19 December 2024, regarding the dust and muddy water arising from the project. The complainant mentioned that the muddy water runoff from site and discharge of muddy water observed at the public drainage system. Moreover, sandy stockpile was not covered properly and lack of dust mitigation measures when the	and materials for storage in Site E3. Site inspection was carried out by the Contractor, the observation during site inspection on 15 and 18 December 2024 are summarised as follow.  (a) As dust mitigation measures, sandy stockpile was covered and water spraying was provided to reduce dust impact.  (b) Vehicular access roads under Contract 3 were hard paved on haul road at exit point and sprayed continuously by water bowser to minimize generation of fugitive dust.  (c) Vehicle wheel and body washing was provided before leaving site and facilities were constructed to collect wastewater from wheel washing to prevent muddy water runoff from site.  (d) Mechanical cover for dump truck	Sent to EPD on 30 December 2024	TCS00864/1 6/300/F0730 a



Log ref.	Date of Complai nt	Docoivo	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.	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:-	Sent to EPD on 10 February 2025	TCS00864/1 6/300/F0738 a



Log ref.	Compiai		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 drainage systems at ARQ sites into the tank was also observed during DSD's site inspection on 28 Feb 2025.	As advised by the RSS, 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 license for discharge under the 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	Channel	Ref. no.	Complaint details	Follow up action Log re	f. 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** 

### **Water Quality Mitigation Measure**



Q1. Wastewater treatment facility 30 cu.m Sedimentation Tank + AquaSed of 15 cu.m per hour + WETSEP



Q1. Wastewater treatment facility 30 cu.m Sedimentation Tank + AquaSed of 15 cu.m per hour + WETSEP