

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 (AUGUST 2025)

PREPARED FOR
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
(CEDD)

Date Reference No. Prepared By Certified By

12 September 2025 TCS01321/23/600/R0767v1

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

Version	Date	Remarks
1	12 September 2025	First submission

EXECUTIVE SUMMARY

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

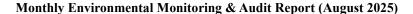
Contract	Commencement date	Anticipated completion date
NE/2016/01 (Contract 1)	December 2016	September 2023
NE/2016/05 (Contract 2)	March 2017	September 2023
NE/2017/03 (Contract 3)	May 2018	January 2025
ED/2020/02 (Contract 4)	July 2021	September 2025
ED/2019/02 (Contract 5)	March 2021	January 2025

- ES05 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. Moreover, contract nos. NE/2017/03 (Contract 3) and ED/2019/02 (Contract 5), covering the environmental monitoring and audit (EM&A) service was completed in January 2025. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- ES06 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 4 for the period from 1 to 31 August 2025 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

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

Environmental	Environmental Monitoring	Reporting Period		
Aspect	Parameters / Inspection	Number of Active Monitoring Locations	Total Occasions	
Air Quality	1-hour TSP	7	126	
Air Quality	24-hour TSP	4	20	
Construction Noise	$\begin{array}{ccc} L_{eq(30min)} \ Daytime & for \ Contract \\ NE/2016/01 \end{array}$	8	40	
Construction Noise	$\begin{array}{ccc} L_{eq(30min)} \ Daytime & for \ Contract \\ NE/2017/03 \end{array}$	1	5	





BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES08 No exceedance of air quality was recorded in the Reporting Period. For construction noise monitoring, no Limit Level exceedance was recorded and no noise complaint (which triggered Action Level) was received in the reporting period. The environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

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

ENVIRONMENTAL COMPLAINT

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

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

REPORTING CHANGE

ES11 There is no reporting change in the Reporting Period.

SITE INSPECTION

ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 4* were carried out by the RE, ET and Contractor on 6, 12, 22 and 26 August 2025 in which IEC joined the site inspection with SSEMC on 22 August 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 (August 2025)

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CEDD Service Contract No. EDO 12/2023

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



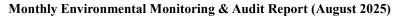


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1. INTRODUCTION

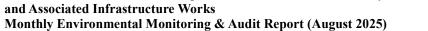
PROJECT BACKGROUND

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

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

- 1.1.3 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract) on 15 September 2023. As notifying by AECOM Asia Company Limited (Engineer's Representative) subsequently, the commencement date of the Service Contract is on 22 September 2023 for the Contract Period of 22 months.
- 1.1.4 The Services under the Service Contract is to provide EM&A services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and Environmental Impact Assessment (EIA) Report of Development of Anderson Road Quarry and other relevant statutory requirements.
- 1.1.5 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the EM&A services for the Development of ARQ site for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively.
- 1.1.6 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. Moreover, contract nos. NE/2017/03 (Contract 3) and ED/2019/02 (Contract 5), covering the environmental monitoring and audit (EM&A) service was completed in January 2025. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- 1.1.7 According to the Approved EM&A Manual, air quality and noise monitoring are required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Baseline monitoring including air quality and noise conducted between *January* and *April 2019* at all designated monitoring locations were before construction work commencement. Furthermore, the Baseline Monitoring Report which verified by the Independent Environmental Checker (hereinafter referred as "the IEC") has been submitted to Environmental Protection Department (EPD) on *9 May 2017* for endorsement.
- 1.1.8 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 4 for the period from 1 to 31 August 2025 (hereinafter 'the Reporting Period').

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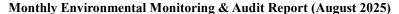




REPORT STRUCTURE

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

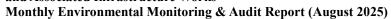
2.3.1 The 3-month rolling construction programme for Contracts 4 are shown in *Appendix C*. The major construction activities conducted in the Reporting Period are summarized in below.

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

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





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

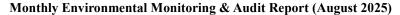
Environmental Issue	Parameters
Air Quality	1-hour TSP by Real-Time Portable Dust Meter; and
Air Quality	24-hour TSP by High Volume Air Sampler
	Leq(30min) in normal working days (Monday to Saturday)
Noise	07:00-19:00 except public holiday
Noise	Supplementary information for data auditing, statistical 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 nd 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

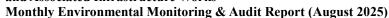
TD	NSR ID in		Status
ID	EIA	Location	
NMS-1(:)	Site C2 – School 05 Note 1	Ground of Maryknoll Secondary School	Active
NMS-2(:)	Site E – School	Rooftop of S.K.H. St. John's Tsang Shiu Tim Primary School, where 1m from the exterior of the building facing the project site	Active
NMS-3(:)	Site C2 – R102–	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

^(#) 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

¹⁻hour TSP monitoring was commenced on 26 November 2018 while installation of HVS for 24-hour TSP was pending approval from Housing Authority.

^{(*) 24-}hour TSP monitoring at AMS1 was abandoned since May 2019 due to lack of power supply and the landlord was unreachable. The alternation location of AMS1a was activated on 15 June 2019 for 1-hour and 24-hour TSP monitoring. The proposal was agreed by EPD on 9 Aug 2019.

^(:) AMS-3 was effective on 3 December 2019 and AMS-4 was effective on 4 January 2023





ID	NSR ID in EIA	Location	Status
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- 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_(30min) measurements between 07:00 and 19:00 hours on normal weekdays

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

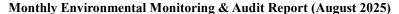
- 3.6.1 The 1-hour TSP monitor was a brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of 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

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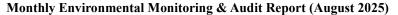


high volume air sampling system, which complied with *EPA Code of Federal Regulation*, *Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:

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

Noise Monitoring

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





- (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.
- 3.6.8 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq_(30 min) in six consecutive Leq_(5 min) measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.
- 3.6.9 The sound level meter will be mounted d on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield will be fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point would normally be at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point would be at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.
- 3.6.10 Immediately prior to and following each noise measurement the accuracy of the sound level meter will be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.
- 3.6.11 Noise measurements will not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.6.12 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period is attached in *Appendix E*.

Meteorological Information

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

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

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

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)	
Withintoning Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

^{(*) 24-}hour TSP monitoring at 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.

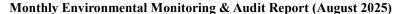
Table 3-8 Action and Limit Levels for Construction Noise

Manitoning Lagation	Action Level	Limit Level in dB(A)		
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays			
NMS-1		70 dB(A) ^{Note 1} /65 dB(A) ^{Note 1}		
NMS-2(@)		/0 db(A) / 03 db(A)		
NMS-3(:)		75 dB(A)		
NMS-4*		75 dB(A)		
NMS-4a#		75 dB(A)		
NMS-5#	When one or more documented	75 dB(A)		
NMS-6~	complaints are received	75 dB(A)		
NMS-7~		75 dB(A)		
NMS-8^		75 dB(A)		
CN1+		$70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$		
CN2+		$70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$		
CN3+		75 dB(A)		

- 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 126 events of 1-hour TSP monitoring and 20 events of 24-hours TSP were carried out and the monitoring results are summarized in Tables 4-1 to 4-5. The detailed 24-hour TSP monitoring data are presented in Appendix H and the relevant graphical plots are shown in Appendix I.

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 st reading	2 nd reading	3 rd reading
4-Aug-25	15	1-Aug-25	9:00	48	52	58
9-Aug-25	28	7-Aug-25	14:13	49	47	43
15-Aug-25	13	13-Aug-25	9:00	52	58	60
21-Aug-25	20	19-Aug-25	9:00	56	58	52
27-Aug-25	15	25-Aug-25	9:05	54	62	58
		30-Aug-25	9:00	62	66	60
Average	18	Average 55				
(Range)	(13 - 28)	(Rang	e)		(43 - 66)	

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

1-hour TSP (μg/m³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading	
1-Aug-25	9:30	64	72	56	
7-Aug-25	9:18	74	69	62	
13-Aug-25	9:30	64	68	60	
19-Aug-25	9:30	54	58	54	
25-Aug-25	9:35	68	64	62	
30-Aug-25	9:30	60	56	64	
Average	Average (Range) 63 (54 – 74)				

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

1-hour TSP (μg/m³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading	
1-Aug-25	8:30	64	67	60	
7-Aug-25	9:00	58	63	64	
13-Aug-25	8:30	62	54	68	
19-Aug-25	13:00	52	50	48	
25-Aug-25	13:05	64	60	62	
30-Aug-25	13:00	64	68	66	
Average	Average (Range) 61 (48 – 68)				



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

1-hour TSP (µg/m³)							
Date	Start Time	1 st reading	2 nd reading	3 rd reading			
1-Aug-25	9:10	64	64	73			
7-Aug-25	9:15	62	68	72			
13-Aug-25	9:20	74	76	67			
19-Aug-25	9:00	62	68	72			
25-Aug-25	9:00	63	67	64			
30-Aug-25	9:00	65	69	62			
Average	e (Range)		67 (62 – 76)				

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

	24-hour	1-hour TSP (μg/m³)					
Date	TSP (μg/m³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
4-Aug-25	34	1-Aug-25	13:00	62	64	58	
9-Aug-25	30	7-Aug-25	9:45	66	62	70	
15-Aug-25	23	13-Aug-25	13:00	62	66	72	
21-Aug-25	14	19-Aug-25	13:00	70	66	62	
27-Aug-25	16	25-Aug-25	8:45	62	70	65	
	-	30-Aug-25	10:00	60	50	54	
Average	23	Average 63					
(Range)	(14 - 34)	(Range	e)		(50 - 72)		

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 st reading	2 nd reading	3 rd reading
4-Aug-25	31	1-Aug-25	8:40	55	52	60
9-Aug-25	50	7-Aug-25	13:00	65	68	62
15-Aug-25	27	13-Aug-25	13:20	63	70	66
21-Aug-25	20	19-Aug-25	13:30	65	52	66
27-Aug-25	25	25-Aug-25	8:30	60	65	68
		30-Aug-25	11:40	68	58	51
Average	30	Average 62				
(Range)	(20 - 50)	(Range	e)		(51 - 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 st reading	2 nd reading	3 rd reading
4-Aug-25	41	1-Aug-25	13:10	63	73	64
9-Aug-25	27	7-Aug-25	13:00	77	69	63
15-Aug-25	35	13-Aug-25	13:10	69	72	66
21-Aug-25	13	19-Aug-25	14:00	58	54	52
27-Aug-25	24	25-Aug-25	14:05	68	64	68
		30-Aug-25	14:00	60	66	72
Average	28	Average 65				
(Range)	(13-41)	(Range	e)		(52 - 77)	

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

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

Construction Noise Level (L _{eq30min}), dB(A)								
Date	NMS1	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7	NMS8
1-Aug-25	68	63	56	63	64	67	65	62
7-Aug-25	70	67	60	55	63	68	65	59
13-Aug-25	69	65	58	65	63	65	63	61
19-Aug-25	70	66	62	63	68	64	62	63
25-Aug-25	68	62	58	65	66	68	65	61
Limit Level	70 dB(dB(A	A) / 65 Note 1			75 d	B(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 5 events noise measurements were performed for the Contract. The noise monitoring results are summarized in *Tables 5-2*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

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

Construction Noise Level ($L_{eq30min}$), $dB(A)$					
Date	CN3				
1-Aug-25	62				
7-Aug-25	58				
13-Aug-25	64				
19-Aug-25	66				
25-Aug-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) (#)	3.925	-			
Hard Rock and Large Broken Concrete ('000m³)	0	-			
Reused in this Contract (Inert) ('000m³)	0	-			
Reused in other Projects (Inert) ('000m³)	0	-			
Disposal as Public Fill (Inert) ('000m ³)	3.925	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

Toma 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	-			
General Refuses ('000m ³)	0.032	-			

^(*) Approved alternative disposal ground.



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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 6, 12, 22 and 26 August 2025 in which IEC joined the site inspection with SSEMC on 22 August 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
6 August 2025	Stagnant water on site was found which should be removed to prevent runoff that causes water pollutions.	• Stagnant water on site was removed to prevent runoff that causes water pollutions.
12 August 2025	• No environmental issue was observed during site inspection.	• NA
22 August 2025	 The Contractor was reminded to cover stockpile after using to prevent dust pollutions, The Contractor was reminded to dispose general refuse at proper area. 	Reminder only.Reminder only.
26 August 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

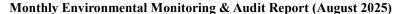
Depositing Devied	Contract	Enviro	Environmental Complaint Statistics				
Reporting Period	no.	Frequency	Cumulative	Complaint Nature			
27 Sep 2021 – 31 July 2025	4	0	11	NA			
	1	0	70	NA			
	2	0	10	NA			
1 – 31 August 2025	3	0	9	NA			
	4	0	13	NA			
	5	0	0	NA			

Table 8-2 Statistical Summary of Environmental Summons

Donauting Davied	Contract	Enviro	Environmental Summons Statistics				
Reporting Period	no.	Frequency	Cumulative	Summons Nature			
27 Sep 2021 – 31 July 2025	4	0	0	NA			
1 – 31 August 2025	1	0	0	NA			
	2	0	0	NA			
	3	0	0	NA			
	4	0	0	NA			
	5	0	0	NA			

Table 8-3 Statistical Summary of Environmental Prosecution

Domontino Domio d	Contract	Environmental Prosecution Statistics			
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature	
27 Sep 2021 – 31 July 2025	4	0	0	NA	
1 – 31 August 2025	1	0	0	NA	
	2	0	0	NA	
	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	 Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge. Replace silt curtain materials if necessary Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site All vehicles must use wheel washing facility before off site Sprayed water during breaking works 			
Air Quality				
Noise	 Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used. 			
Waste and Chemical Management	 On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal 			
General	The site was generally kept tidy and clean.			

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
- Building works 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



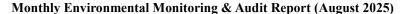
Monthly Environmental Monitoring & Audit Report (August 2025)

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 101st monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to 31 August 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.
- 10.1.6 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 4 in accordance with the EM&A Manual stipulation whereas IEC performed monthly site inspection for both contracts. No non-compliance observed during the site inspection.

10.2 RECOMMENDATIONS

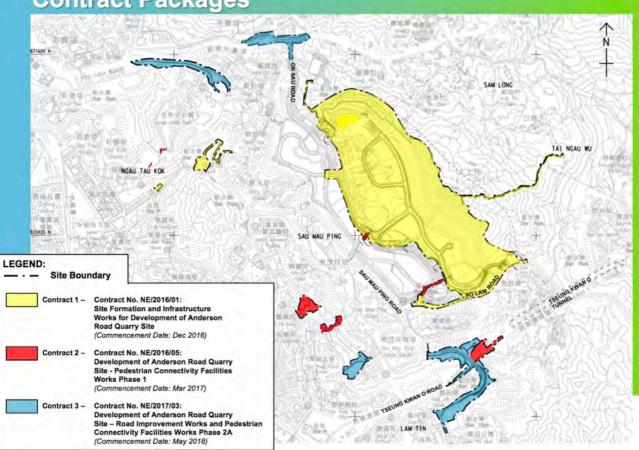
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.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



Appendix A

Layout plan of the Project

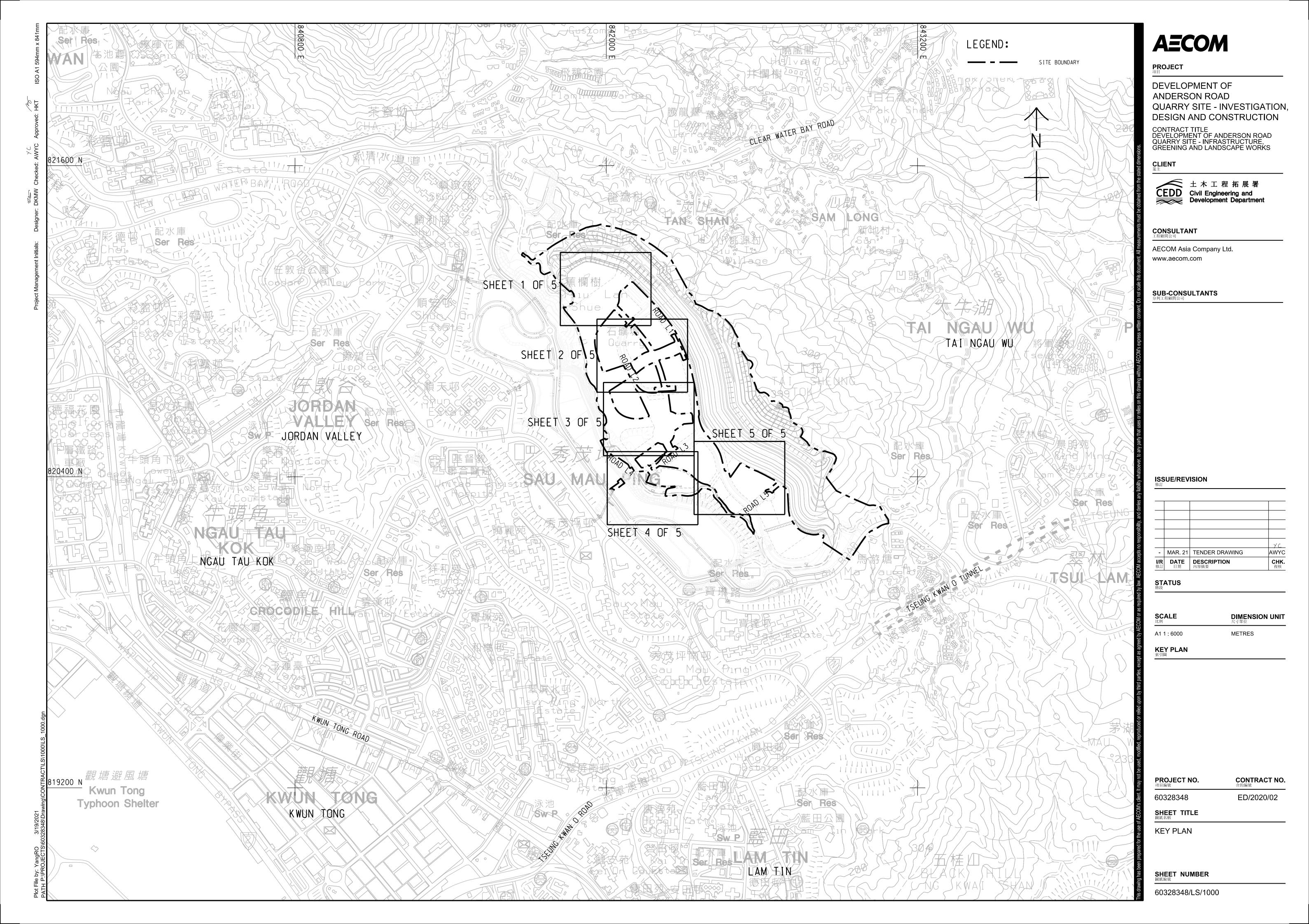
Contract Packages



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 (August 2025)



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



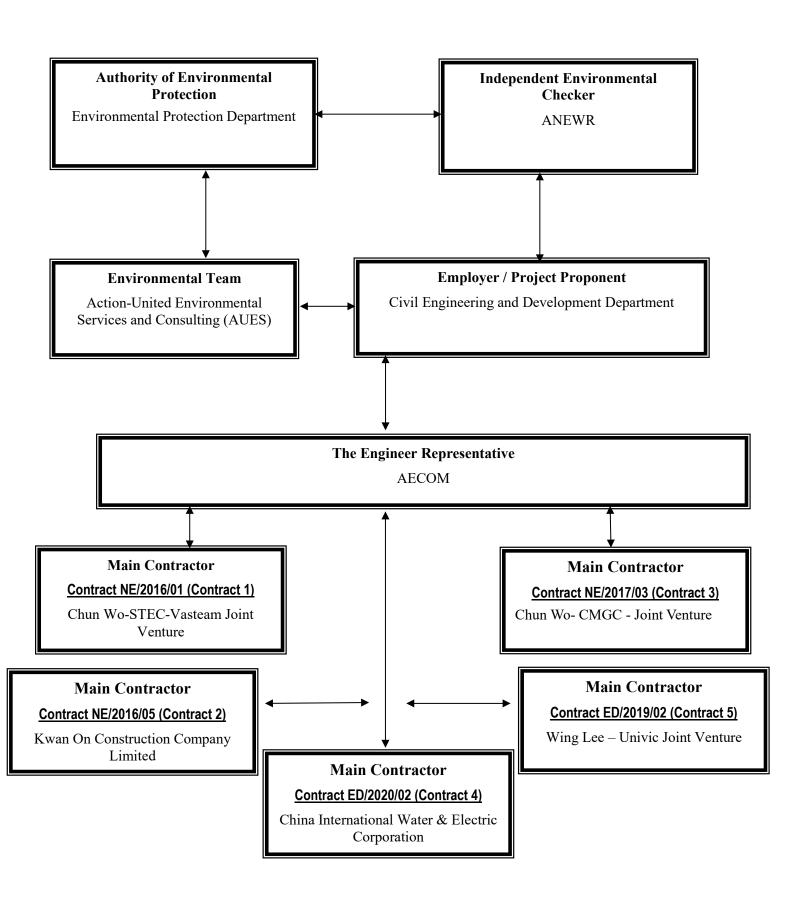


Appendix B

Project Organization Structure



Project Organization Structure



Monthly Environmental Monitoring & Audit Report (August 2025)



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	Senior Resident Engineer	Eddie Wong	5192 0965	2473 3221
AECOM	Resident Engineer	Samson Lam	5692 6545	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 (August 2025)



Contract 4 (ED/2020/02)

China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

Updated on 05 Sep 2025

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

3 Months Rolling Programme (September 2025 to November 2025) ID Task Name Duration Start Finish Predecessors September 2025 October 2025 November 2025 11/10 1/11 11/9 21/9 1/10 21/10 11/11 21/11 1950 days Fri 30/7/21 Mon 25/1/27 <New Summary Task> <New Summary Task> 2 1950 days Fri 30/7/21 Mon 25/1/27 3 Contract Period 1950 days Fri 30/7/21 Mon 25/1/27 Fri 30/7/21 Fri 30/7/21 4 Contract Starting Date [Contract Award Date 21 Jul 2021] 0 days 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 Potential EOT due to CEs and Inclement weather 319 days Sun 29/12/24 Wed 12/11/25 12/11 8 Anticipated Completion of the Whole of the Works 0 days Mon 25/1/27 Mon 25/1/27 27FF 7 Section of Works and Relevant Portions of Work 1978 days Fri 30/7/21 Fri 26/2/27 9 Section of Works 1 - Portions 1a, 2a & 2b 1554 days Mon 30/8/21 Sun 30/11/25 10 11 Original Completion Date 0 days Wed 13/12/23 Wed 13/12/23 4FS+867 days 1312 days Fri 29/4/22 Sun 30/11/25 12 Portion 1a Fri 29/4/22 13 Fri 29/4/22 4FS+273 days Access date 0 days Sun 12/11/23 13SS 14 Construction Duration 563 days Fri 29/4/22 15 Potential EOT due to Inclement weather and CEs 335 days Mon 13/11/23 Sat 12/10/24 14 16 Anticipated Completion Date 144 days Thu 10/7/25 Sun 30/11/25 Portion 2a 1554 days 17 Mon 30/8/21 Sun 30/11/25 18 Mon 30/8/21 Mon 30/8/21 4FS+31 days Access date 0 days 19 Construction Duration 836 days Mon 30/8/21 Wed 13/12/23 18SS 20 Potential EOT due to Inclement weather and CEs 335 days Thu 14/12/23 Tue 12/11/24 19 89 days Wed 3/9/25 Anticipated Completion Date Sun 30/11/25 21 3/9 Portion 2b 1448 days Tue 14/12/21 Sun 30/11/25 22 23 Access date 0 days Tue 14/12/21 Tue 14/12/21 4FS+137 days 24 Construction Duration 730 days Tue 14/12/21 Wed 13/12/23 23SS 24 25 Potential EOT due to Inclement weather and CEs 292 days Thu 14/12/23 Mon 30/9/24 130 days Thu 24/7/25 Anticipated Completion Date Sun 30/11/25 26 27 Section of Works 1A - Establishment Works for all Landscape Softworks 718 days Thu 12/12/24 Mon 25/1/27 28 Original Completion Date 0 days Thu 12/12/24 Thu 12/12/24 11FS+365 days Commencement of Establishment Work Mon 1/12/25 Mon 1/12/25 3055 29 0 days Establishment Work Duration 365 days Mon 1/12/25 Mon 25/1/27 16,21,26 1/12 30 31 Anticipated Completion Date 0 days Mon 25/1/27 Mon 25/1/27 30FF 32 Section of Works 2 - Portion 8 1577 days Fri 30/7/21 Sat 22/11/25 33 Original Completion Date 0 days Sat 29/7/23 Sat 29/7/23 34 Fri 30/7/21 Fri 30/7/21 0 days Access date 730 days Fri 30/7/21 Sat 29/7/23 34 35 Construction Duration Potential EOT due to Inclement weather and CEs up to Jan 2023 385 days Sun 30/7/23 Sat 17/8/24 35 36 37 Anticipated Completion Date 0 days Sat 22/11/25 Sat 22/11/25 403FF.36 22/11 Section of Works 2A - Establishment Works for all Landscape Softworks 699 days Mon 23/12/24 38 Fri 15/1/27 in Section 2 of the Works 39 Original Completion Date 0 days Mon 23/12/24 Mon 23/12/24 40 Commencement of Establishment Work 0 days Sun 23/11/25 Sun 23/11/25 41SS 23/11 Sun 23/11/25 Fri 15/1/27 37 41 Establishment Work Duration 365 days 23/11 41FF 42 Fri 15/1/27 Fri 15/1/27 Anticipated Completion Date 0 days Section of Works 3 - Portions 1b, 3, 4, 5 43 763 days Fri 30/7/21 Thu 31/8/23 Original Completion Date 0 days Tue 30/5/23 Tue 30/5/23 4FS+669 days 44 45 Portion 1b 276 days Tue 29/11/22 Thu 31/8/23 Tue 29/11/22 Tue 29/11/22 4FS+487 days 46 Access date 0 days 183 days Tue 29/11/22 46 47 Construction Duration Tue 30/5/23 48 Potential EOT due to Inclement weather and CEs 93 days Wed 31/5/23 Thu 31/8/23 47 49 Anticipated Completion Date 0 days Thu 31/8/23 Thu 31/8/23 582FF.48 Portion 3 702 days Wed 29/9/21 Thu 31/8/23 50 Wed 29/9/21 Wed 29/9/21 4FS+61 days 51 Access date 0 days 609 days Wed 29/9/21 52 Construction Duration Tue 30/5/23 53 Potential EOT due to Inclement weather and CEs 93 days Wed 31/5/23 Thu 31/8/23 52 594FF 53 Thu 31/8/23 54 Anticipated Completion Date 0 days Thu 31/8/23 763 days Fri 30/7/21 Thu 31/8/23 Portion 4 55 Fri 30/7/21 Fri 30/7/21 56 Access date 0 days 57 Construction Duration 670 days Fri 30/7/21 Tue 30/5/23 56 57 58 Potential EOT due to Inclement weather and CEs 93 days Wed 31/5/23 Thu 31/8/23 Anticipated Completion Date 0 days Thu 31/8/23 Thu 31/8/23 605FF.58 59 Portion 5 551 days Sun 27/2/22 Thu 31/8/23 60 61 Access date 0 days Sun 27/2/22 Sun 27/2/22 62 Construction Duration 458 days Sun 27/2/22 Tue 30/5/23 61 Task Critical Task Milestone Summary

		Start	Finish	Predecessors	September 2025 /9 11/9 21/9	October 20	25 21/10	November 2025
	00.1				/9 11/9 21/9	1710	21/10	
	93 days	Wed 31/5/23	Thu 31/8/23	62		1,112	2.7.10	11/11 11/11
Anticipated Completion Date	•	Thu 31/8/23		609FF,63				
Section of Works 3A - Establishment Works for all Landscape Softworks	365 days	Fri 1/9/23	Fri 30/8/24					
in Section 3 of the Works								
<u> </u>	•	Tue 28/5/24		44FS+365 days				
	,	Fri 1/9/23		68SS				
	•	Fri 1/9/23		54,49,59,64				
·	·			68FF				
· · · · · · · · · · · · · · · · · · ·				4FS+683 days				
Portion 6	•						•	
	•							
	·	Sat 29/1/22						
Potential EOT due to Inclement weather and CEs	•						٦	
	0 days	Sat 18/10/25	Sat 18/10/25	618FF,75			X 18/10	
Portion 12	1612 days	Fri 30/7/21	Sat 27/12/25					
Access date	0 days	Fri 30/7/21						
	684 days	Fri 30/7/21	Tue 13/6/23	78				
Potential EOT due to Inclement weather and CEs	471 days	Wed 14/6/23	Thu 26/9/24	79				
Anticipated Completion Date	0 days	Sat 27/12/25	Sat 27/12/25					
	928 days	Wed 12/6/24	Thu 25/2/27					
	1570 days	Fri 30/7/21	Sat 15/11/25					
				4FS+698 dave				
*				71 07030 udys				
	•			4FS+61 dave				
	•							
	•							15/11
· · · · · · · · · · · · · · · · · · ·	-			32,113FF				15/11
	•			4				
				05				
	•							
	•							
	•			82/FF,9/		30/9		
	8/2 days	wed 26/6/24	1 hu //1/27					
	0 days	Wed 26/6/24	Wed 26/6/24	88FS+365 days				
Commencement of Establishment Work	0 days	Sun 16/11/25	Sun 16/11/25	102SS				→ 16/11
Establishment Work Duration	365 days	Sun 16/11/25	Thu 7/1/27	93,98				16/11
Anticipated Completion Date	0 days	Thu 7/1/27	Thu 7/1/27	102FF				
Section of Works 5B - Portion 11	954 days	Sun 27/2/22	Mon 7/10/24					
Original Completion Date	0 days	Tue 27/6/23	Tue 27/6/23	4FS+697 days				
				4FS+211 days				
	•							
·	-		Fri 5/4/24					
	·			4FS+851 days				
				•				
	•							
, ,	•							
	•		Sat 5/4/25					
in Section 6 of the Works								
	•							
	·							
	•			119FF				
Section of Works 7A - Portions 13a, 14 (DELETED)	669 days	Fri 30/7/21	Mon 29/5/23					
Access date for Portion 13a	0 days	Sat 29/1/22	Sat 29/1/22	4				
Construction Duration for Portion 13a	486 days	Sat 29/1/22	Mon 29/5/23	122				
Completion of Works in Portion 13a	0 days	Mon 29/5/23	Mon 29/5/23	123,955				
Access date for Portion 14	0 days	Fri 30/7/21	Fri 30/7/21	4				
Construction Duration for Portion 14	669 days	Fri 30/7/21	Mon 29/5/23	125				
Completion of Works in Portion 14	0 days	Mon 29/5/23	Mon 29/5/23	126,967,966				
* i * i	Section of Works 4 - Portions 6, 12 Original Completion Date Portion 6 Access date Construction Duration Potential EOT due to Inclement weather and CEs Anticipated Completion Date Portion 12 Access date Construction Duration Potential EOT due to Inclement weather and CEs Anticipated Completion Date Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works Section of Works 5A - Portions 9, 10 Original Completion Date Porion 9 Access date Construction Duration Potential EOT due to Inclement weather and CEs Anticipated Completion Date Portion 10 Access date for Portion Construction Duration for Portion Potential EOT due to Inclement weather and CEs Anticipated Completion Date Portion 10 Access date for Portion Construction Duration for Portion Potential EOT due to Inclement weather and CEs Anticipated Completion Date Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works Original Completion Date Commencement of Establishment Works Establishment Work Duration Anticipated Completion Date Section of Works 5B - Portion 11 Original Completion Date Section of Works 5B - Portion 11 Original Completion Date Section of Works 6A - Establishment weather and CEs Anticipated Completion Date Section of Works 6B - Portion 7 Original Completion Date Construction Duration Deferred possession (CE 067) Anticipated Completion Date Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works Original Completion Date Construction Duration Date Commencement of Establishment Works for all Landscape Softworks in Section 6 of the Works Original Completion Date Construction Duration Tor Portion 13a Completion Date Original Completion Date Section of Works 6A - Establishment Work Establishment Work Duration Anticipated Completion Date Commencement of Establishment Work Establishment Work Duration Tor Portion 13a Completion Duration for Portion 13a Completion Duration for Portion 14a	Section of Works 4 - Portions 6, 12 Original Completion Date Portion 6 1359 days Access date Construction Duration Potential EOT due to Inclement weather and CEs Anticipated Completion Date Portion 12 1612 days Access date Construction Duration Fortion 12 Construction Duration Potential EOT due to Inclement weather and CEs Anticipated Completion Date Construction Duration Potential EOT due to Inclement weather and CEs Articipated Completion Date Construction Duration Potential EOT due to Inclement weather and CEs Articipated Completion Date Section of Works 4.A - Establishment Works for all Landscape Softworks In Section of Works 5.A - Portions 9, 10 Original Completion Date Portion 9 Access date Construction Duration Potential EOT due to Inclement weather and CEs Articipated Completion Date Portion 10 1524 days Access date Construction Duration for Portion Potential EOT due to Inclement weather and CEs Access date for Portion Construction Duration for Portion Potential EOT due to Inclement weather and CEs Access date for Portion Construction Duration for Portion Potential EOT due to Inclement weather and CEs Access date for Portion Construction Duration for Portion Potential EOT due to Inclement weather and CEs Access date for Works 5.A - Establishment Works for all Landscape Softworks In Section of Works 5.A - Establishment Works Original Completion Date Commencement of Establishment Works Original Completion Date Commencement of Establishment Work Original Completion Date Odays Section of Works 5.B - Portion 7 494 days Original Completion Date Odays Anticipated Completion Date Odays Construction Duration Access date Odays Anticipated Completion Date Odays Construction Duration Access date Odays Anticipated Completion Date Odays Construction Duration Odays Section of Works 5.Portion 7 Odays Access date Odays Anticipated Completion Date Odays Oday	Section of Works 4 - Portions 6, 12	Section of Works 4 - Portions 6, 12	Section of Works 4- Pertions 6, 12	Section of Works 2 - Persona 6, 12	Station of March Afforms 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marie Mari

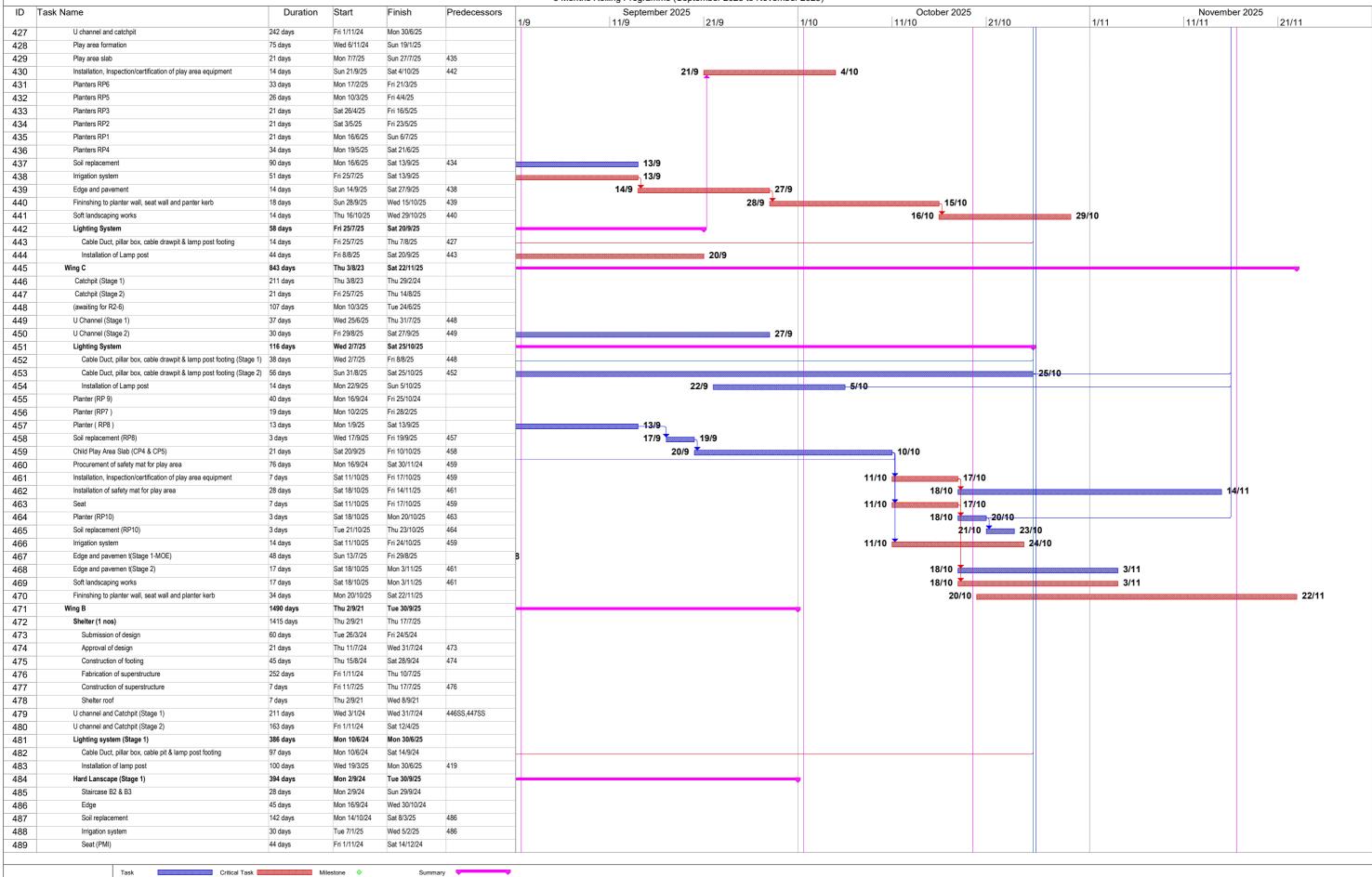
						3 Months Rolling Programme (Sept		/					
ID T	ask Name	Duration	Start	Finish	Predecessors	September 2025 1/9 11/9	21/9	1/10	October 2025	21/10	1/11 11/1	lovember 2025	1/11
128	Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)	365 days	Mon 29/5/23	Tue 28/5/24		11/9	21/9	1/10	11/10	21/10	1711	1 2	1/11
129	Commencement of Establishment Work for Section 7A	0 days	Mon 29/5/23	Mon 29/5/23	127								
130	Establishment Work Duration for Section 7A	365 days	Tue 30/5/23	Tue 28/5/24	129								
131	Completion of Works in Section 7A	0 days	Tue 28/5/24	Tue 28/5/24	130,972								
132	Section of Works 7B - Portions 13b, 15	1402 days	Sat 26/2/22	Sun 28/12/25									
133	Original Completion Date	0 days	Thu 28/12/23	Thu 28/12/23	4FS+882 days								
134	Portion 13b	1402 days	Sat 26/2/22	Sun 28/12/25									
135	Access date	0 days	Sat 26/2/22	Sat 26/2/22	4FS+211 days								
136		671 days		Fri 29/12/23									
137	·	300 days		Thu 24/10/24	136								
138		0 days		Sun 28/12/25									
139		1401 days		Sun 28/12/25									
140		0 days		••	4								
141		671 days		Fri 29/12/23	140								
142		300 days		Thu 24/10/24	141								
143		0 days		Sun 28/12/25									
144	Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works	731 days	Fri 27/12/24	Fri 26/2/27									
145		0 days	Fri 27/12/24	Fri 27/12/24	133FS+365 days								
146		0 days		Mon 29/12/25	147SS								
147	Establishment Work Duration	365 days	Mon 29/12/25	Fri 26/2/27	138,143								
148	Anticipated Completion Date	0 days	Fri 26/2/27	Fri 26/2/27	147FF	-							
149	Section of Works 8 - Portion 16	564 days	Thu 16/6/22	Sun 31/12/23		1							
150	Original Completion Date	0 days	Wed 28/6/23	Wed 28/6/23	4FS+698 days	1							
151	Access date	0 days	Thu 16/6/22	Thu 16/6/22	4FS+321 days								
152	Construction Duration	378 days	Thu 16/6/22	Wed 28/6/23	151								
153	Potential EOT due to Inclement weather and CEs	186 days	Thu 29/6/23	Sun 31/12/23	152								
154	Anticipated Completion Date	0 days	Sun 31/12/23	Sun 31/12/23	153,1168FF								
155	Section of Works 8A - Establishment Works for all Landscape Softworks	365 days	Mon 1/1/24	Mon 30/12/24									
156	in Section 8 of the Works Original Completion Date	0 days	Thu 27/6/24	Thu 27/6/24	150FS+365 days								
157	•	0 days		Mon 1/1/24	158SS								
158		365 days		Mon 30/12/24	154								
159		0 days		Mon 30/12/24	158FF								
160		1282 days		Sun 31/8/25									
161		0 days		Fri 29/12/23	4FS+882 days								
162		0 days	Sun 27/2/22	Sun 27/2/22	4FS+212 days								
163	Construction Duration	671 days	Sun 27/2/22	Fri 29/12/23	162								
164	Potential EOT due to Inclement weather and CEs	306 days	Sat 30/12/23	Wed 30/10/24	163								
165	Anticipated Completion Date	0 days	Sun 31/8/25	Sun 31/8/25	164,1184FF	31/8							
166	Section of Works 9A - Establishment Works for all Landscape Softworks	611 days	Sat 28/12/24	Sat 10/10/26									
407	in Section 9 of the Works	O dave	C-+ 20/12/24	Cat 20/42/24	161FC - 26F days								
167	•	0 days 0 days		Sat 28/12/24 Sun 31/8/25	161FS+365 days 165SS	31/8							
168 169		365 days		Sat 10/10/26	165	J 110							
170		0 days		Sun 31/8/25		31/8							
170	1	1202 days		Tue 12/11/24	.5011								
172		0 days		Thu 28/12/23	133FF	-							
173	•	0 days			4	-							
174		883 days			173								
175		319 days			174								
176		0 days		Tue 12/11/24	175,1261FF	-							
177	·	1567 days		Wed 12/11/25								,	
178		370 days		Wed 3/8/22		1							
179	-	7 days			4	1							
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	1							
182	Submission of MPF form to MPFSA	7 days	Fri 30/7/21	Thu 5/8/21	4	1							
183	Notification to Labour Department/Marine Department of the commencement date and other details of the contract	7 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	1							
186	Set up Site Liaison Group (SLG)	7 days	Fri 30/7/21	Thu 5/8/21	4	1							
187	Professional video production company and a competent video director	7 days	Fri 30/7/21	Thu 5/8/21	4	1							
			·									<u> </u>	
	Task Critical Task	Mile	stone	Summai	ry					·			

							0 1 1 0							
ID Ta	sk Name	Duration	Start	Finish	Predecessors		September 2			October 2025	1		November 2	
100	Surveyor, Key People	7 days	Fri 30/7/21	Thu 5/8/21	4	1/9	11/9	21/9	1/10	11/10	21/10	1/11	11/11	21/1
188		7 days 7 days	Fri 30/7/21	Thu 5/8/21	7									
189	· · · · · ·	· ·			4									
190	Particulars of Independent service provider for Digital Works Supervision Syst		Fri 30/7/21	Thu 5/8/21	4									
191		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	21 days	Fri 30/7/21	Thu 19/8/21	4									
194	Content of Contract Webpage (Monthly update afterwards)	21 days	Fri 30/7/21	Thu 19/8/21	4									
195		21 days	Fri 30/7/21	Thu 19/8/21	4									
100	knowledge of the site supervisory for tree preservation)	21 days	Fri 30/7/21	Thu 19/8/21	4	_								
196	-				4									
197	1 1	30 days	Fri 30/7/21	Sat 28/8/21	4									
198	-	30 days	Fri 30/7/21	Sat 28/8/21	4									
99		30 days	Fri 30/7/21	Sat 28/8/21	4									
200		30 days	Fri 30/7/21	Sat 28/8/21	4									
201	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	Professional Indemnity Insurance in respect of Contractor's Design	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									
:05	7 days advance notice of the date on which workers begin to wear Site uniform; Provide uniforms within 5 days after the design is accepted by PM	60 days	Fri 30/7/21	Mon 27/9/21	4	1								
06		90 days	Fri 30/7/21	Wed 27/10/21	4									
207		90 days	Fri 30/7/21	Wed 27/10/21	4	-								
208		90 days	Fri 30/7/21	Wed 27/10/21	4									
209	-	90 days	Fri 30/7/21	Wed 27/10/21	4	+								
210	Combined Services Drawing (CSD) and CBWD generated from BIM model		Fri 30/7/21	Wed 27/10/21	4	+								
211		180 days	Fri 30/7/21	Tue 25/1/22	4									
				Tue 25/1/22	4									
212	Employment of Construction Industry Council's Graduates (min. 4 graduates)		Fri 30/7/21		4									
213	Nomination of Treatment process specialist, Design Engineer, and Independent Checking Engineer (ICE)	34 days	Fri 1/7/22	Wed 3/8/22										
214		60 days	Fri 30/7/21	Mon 27/9/21										
215	Preparation and submission of Noise Mitigation Plan (3 hard copies, 2	30 days	Fri 30/7/21	Sat 28/8/21	4									
216	electronic copies)	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									
- 17	copies)	· uujo	55,7,2	1110 0/0/21	·									
218	Preparation and submission of Quality Policy statement and quality plan	7 days	Fri 30/7/21	Thu 5/8/21	4									
219	Preparation and submission of Draft Environmental Management Plan (EMP) 3 copies	4 days	Fri 30/7/21	Mon 2/8/21	4									
220	Tender requirements for suppliers of Plant and Materials, Equipment and Insurance Proposal	14 days	Fri 30/7/21	Thu 12/8/21	4									
221	Preparation of Proposal for arrangement for placement of storage compartments/ drinking water facilities/ toilet/ hand-wash facilities/ showering/	14 days	Fri 30/7/21	Thu 12/8/21	4									
	rubbishbin/ working shelter on Site													
222	Preparation Proposal for security system	14 days	Fri 30/7/21	Thu 12/8/21	4									
223	Preparation and submission of DWSS proposal	21 days	Fri 30/7/21	Thu 19/8/21	4									
224	Preparation and submission of Subcontractor Management Plan (SMP)	21 days	Fri 30/7/21	Thu 19/8/21	4									
225	Preparation and submission of Construction Health and Safety Plan (6 copies)	30 days	Fri 30/7/21	Sat 28/8/21	4									
226	Weather protection scheme	30 days	Fri 30/7/21	Sat 28/8/21	4									
227	Proposal of COBie information requirements	30 days	Fri 30/7/21	Sat 28/8/21	4									
228	Preparation and submission of Final Environmental Management Plan (EMP) 3 copies	30 days	Fri 30/7/21	Sat 28/8/21	4	1								
229		30 days	Fri 30/7/21	Sat 28/8/21	4	1								
230		60 days	Fri 30/7/21	Mon 27/9/21	4	1								
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		Fri 30/7/21	Mon 27/9/21	4	1								
233		60 days	Fri 30/7/21	Mon 27/9/21	4									
234		7 days	Fri 30/7/21	Thu 5/8/21	4	+								
		411 days	Thu 16/3/23	Mon 29/4/24										
		45 days	Thu 16/3/23	Sat 29/4/23										
236					236									
237		115 days	Sun 30/4/23	Tue 22/8/23	236	4								
238		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.	15 days	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										
				Mon 29/4/24	242									

ID Ta	ask Name	Duration	Start	Finish	Predecessors	4.10	September 2		4440	October 2025		444	November 2	
244	Procurement of Balustrade Wall BW1-2	60 days	Mon 1/1/24	Thu 29/2/24		1/9	11/9	21/9	1/10	11/10	21/10	1/11	11/11	21/11
245		60 days	Fri 1/3/24	Mon 29/4/24	244									
246		60 days	Mon 1/1/24	Thu 29/2/24	2-11									
		•		Mon 29/4/24	246									
247	Design, Manufacturing, FAT & delivery of Children Play Areas & water play area Park Facilities	ou days	Fri 1/3/24	WON 29/4/24	240									
248	Procurement of Adult fitness Area Park Facilities	60 days	Mon 1/1/24	Thu 29/2/24										
249	Design Manufacturing, FAT & delivery of Adult fitness Area Park Facilities	60 days	Fri 1/3/24	Mon 29/4/24	248									
250		60 days	Mon 1/1/24	Thu 29/2/24										
251	Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities	•	Fri 1/3/24	Mon 29/4/24	250									
		1537 days	Fri 30/7/21	Mon 13/10/25	250									
		•			4									
253		6 days	Fri 30/7/21	Wed 4/8/21	4									
254		14 days	Fri 30/7/21	Thu 12/8/21	4									
255	Program Review and Acceptance of First Program	14 days	Thu 5/8/21	Wed 18/8/21	253									
256	Preparation and Submission of Detailed Works Program	60 days	Thu 19/8/21	Sun 17/10/21	255,254									
257	Program Review and Acceptance of Works Program	14 days	Mon 18/10/21	Sun 31/10/21	256									
258	Implementation of Programme Management and Monthly Reporting	1443 days	Mon 1/11/21	Mon 13/10/25	257	1%				13/10				
259	Permit and Licences	60 days	Fri 30/7/21	Mon 27/9/21										
260	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	-												
261	Risk Assessment for slope works	7 days	Fri 30/7/21	Thu 5/8/21	4									
262	Welfare facilities for workers in accordance with requirements in PS Clause 1.	7 days	Fri 30/7/21	Thu 5/8/21	4									
263	UU detection equipment brand/model	7 days	Fri 30/7/21	Thu 5/8/21	4									
264	Certified calibration certificates	7 days	Fri 30/7/21	Thu 5/8/21	4									
265	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													
266		6 days	Fri 30/7/21	Wed 4/8/21	4									
267	payment of wages to all the Site Workers Site Cleanliness and Tidiness	7 daya	Fri 30/7/21	Thu 5/8/21	4									
267		7 days			i .									
268	3 sets of coloured record photos in SR size (recording existing building/ street furniture)	/ days	Fri 30/7/21	Thu 5/8/21	4									
269	·	7 days	Fri 30/7/21	Thu 5/8/21	4									
270		7 days	Fri 30/7/21	Thu 5/8/21	4									
271		7 days	Fri 30/7/21	Thu 5/8/21	4									
		-		Thu 12/8/21	4									
272	Inclinometer access tubes - suppliers, material specification and samples of the tubes and couplings	14 days	FII 30/1/21	1110 12/0/21	4									
273		14 days	Fri 30/7/21	Thu 12/8/21	4									
274	Tree survey record	14 days	Fri 30/7/21	Thu 12/8/21	4									
275		30 days	Fri 30/7/21	Sat 28/8/21	4									
276		60 days	Fri 30/7/21	Mon 27/9/21	4									
277		60 days	Fri 30/7/21	Mon 27/9/21	4									
			Fri 30/7/21	Mon 27/9/21	4									
278	<u>*</u>	60 days			4									
-	· · · · · · · · · · · · · · · · · · ·	1034 days	Fri 1/7/22	Tue 29/4/25										
280	Architectural & Structural	183 days	Fri 1/7/22	Fri 30/12/22										
281	Prepare & Submission	31 days	Fri 1/7/22	Sun 31/7/22	4									
282	Internal Review & Submission	15 days	Mon 1/8/22	Mon 15/8/22	281									
283	PM Review & AIP	16 days	Tue 16/8/22	Wed 31/8/22	282									
284	Re-submission	30 days	Thu 1/9/22	Fri 30/9/22	283									
285	Design Checker Review & Endorsement	7 days	Sat 1/10/22	Fri 7/10/22	284									
286		8 days	Sat 8/10/22	Sat 15/10/22	285									
287		7 days	Sun 16/10/22	Sat 22/10/22	286									
288	<u> </u>	69 days	Sun 23/10/22	Fri 30/12/22	287									
					201									
289		341 days		Fri 20/10/23										
290		180 days	Fri 1/11/24	Tue 29/4/25										
291		30 days	Wed 6/11/24	Thu 5/12/24										
292		60 days	Fri 6/12/24	Mon 3/2/25	291									
293	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										
	Works]	O dave	F: 4414 100	F.: 4414100										
295	<u> </u>	0 days	Fri 14/1/22	Fri 14/1/22										
296	Enhancement on Architectual Design & Associated Works at Portions 1a, 2a and 2h (Ouarry Lake) (CE 070)	0 days	Tue 4/4/23	Tue 4/4/23	295									
297	and 2b (Quarry Lake) (CE 070) AIP and approvals	275 days	Fri 1/7/22	Sat 1/4/23										
		-			205									
298		153 days	Fri 1/7/22	Wed 30/11/22	295									
299	<u> </u>	92 days	Sat 31/12/22	Sat 1/4/23	298									
300		0 days	Sat 1/4/23	Sat 1/4/23	299									
301	Detailed Design Submission Schedule	473 days	Mon 31/7/23	Thu 14/11/24										
	04-4-4	02 4	Wed 30/8/23	Thu 30/11/23	300				1 1		I .			
302	Statutory submission	92 days	1160 30/0/23	111u 30/11/23	000									

ID IT:			1-:			J WOTHIS I		eptember 2025 to No	Veniber 2020)						
''	ask Name	Duration	Start	Finish Pre	edecessors	1/0	September 202	25	1/10	October 20, 11/10	25	1/11	November		
303	FSD submission for GBP	0 days	Thu 30/11/23	Thu 30/11/23		1/9	11/9	21/9	1/10	11/10	21/10	1/11	11/11	21/11	
304	WWO542 documment	0 days	Wed 30/8/23	Wed 30/8/23											
305	Civil	46 days	Wed 30/8/23	Sun 15/10/23 300											
306	Underground rain water drainage	0 days	Sun 15/10/23	Sun 15/10/23											
307	Underground watermain	0 days	Wed 30/8/23	Wed 30/8/23											
308	Undergroud sewerage	0 days	Sat 30/9/23	Sat 30/9/23											
309	Irrigation	0 days	Wed 30/8/23	Wed 30/8/23											
310	Landscape and Miscellaneous	101 days	Mon 21/8/23	Thu 30/11/23 300											
311	Landscape	56 days	Mon 21/8/23	Sun 15/10/23											
312	Smart weir system	0 days	Mon 30/10/23	Mon 30/10/23											
313	Flood warning system	0 days	Thu 30/11/23	Thu 30/11/23											
314	Building	473 days	Mon 31/7/23	Thu 14/11/24											
315	A1: Lavatories	473 days	Mon 31/7/23	Thu 14/11/24											
316	Architecture	32 days	Mon 31/7/23	Thu 31/8/23											
317	Structure	150 days	Sat 7/10/23	Mon 4/3/24											
	E& M	316 days	Thu 4/1/24	Thu 14/11/24											
318		-													
319	A2: Management Office Building	458 days	Tue 15/8/23	Thu 14/11/24											
320	Architecture	17 days	Tue 15/8/23	Thu 31/8/23											
321	Structure	220 days	Sat 14/10/23	Mon 20/5/24											
322	E& M	214 days	Mon 15/4/24	Thu 14/11/24											
323	B1: Multi-Purpose Building	458 days	Tue 15/8/23	Thu 14/11/24											
324	Architecture	17 days	Tue 15/8/23	Thu 31/8/23											
325	Structure	224 days	Sat 28/10/23	Fri 7/6/24											
326	E& M	251 days	Sat 9/3/24	Thu 14/11/24											
327	B2: TX Room/Lavatories	458 days	Tue 15/8/23	Thu 14/11/24											
328	Architecture	29 days	Tue 15/8/23	Tue 12/9/23											
329	Structure	199 days	Thu 21/12/23	Sat 6/7/24											
	E& M		Mon 26/2/24	Thu 14/11/24											
330		263 days													
331	C2: Water Treatment Plant Room	458 days	Tue 15/8/23	Thu 14/11/24											
332	Architecture	17 days	Tue 15/8/23	Thu 31/8/23											
333	Structure	271 days	Sat 7/10/23	Wed 3/7/24											
334	E& M	196 days	Fri 3/5/24	Thu 14/11/24											
335	Schedule of Accommodation (SoA) Submission	141 days	Sun 2/4/23	Mon 21/8/23 300											
336	Stage 1	56 days	Sun 2/4/23	Sat 27/5/23											
337	Agree SoA with DSD	14 days	Sun 2/4/23	Sat 15/4/23											
338	Workshop	8 days	Sun 16/4/23	Sun 23/4/23 337											
339	GPA submission and approval	34 days	Mon 24/4/23	Sat 27/5/23 338											
340	Stage 2	63 days	Mon 19/6/23	Mon 21/8/23 339											
341	Submission	0 days	Mon 19/6/23	Mon 19/6/23											
342	approval	0 days	Mon 21/8/23												
343	DSD's VCAB submission	183 days	Fri 7/4/23	Fri 6/10/23											
344	Stage 1 - AIP	28 days	Fri 7/4/23	Thu 4/5/23											
345	Submission and presentation	8 days	Fri 7/4/23	Fri 14/4/23											
346	Approval	20 days	Sat 15/4/23	Thu 4/5/23 345											
347	Stage 2 - Detailed design	67 days	Tue 1/8/23	Fri 6/10/23 346											
348	Submission and presentation	0 days	Tue 1/8/23	Tue 1/8/23											
349	VCAB meeting	0 days	Thu 7/9/23	Thu 7/9/23 348											
350	Approval	30 days	Thu 7/9/23	Fri 6/10/23 349											
351	Sub-letting (Cost Trimming Scheme)	211 days	Wed 1/3/23	Wed 27/9/23											
352	Drawings for cost estimation	30 days	Wed 1/3/23	Thu 30/3/23 300	FS-32 days										
353	Tender approval	11 days	Fri 31/3/23	Mon 10/4/23 352											
JUU		8 days	Mon 17/4/23	Mon 24/4/23 353											
	Tender addendum	2 44,0	Tue 4/4/23		FS-21 days										
354	Tender addendum Sub-letting Period	25 days	1 UO T/4/2J	1112017120 334											
354 355	Sub-letting Period	25 days		Wod 10/E/22											
354 355 356	Sub-letting Period Tender Assessment & approval	12 days	Sat 29/4/23	Wed 10/5/23 355											
354 355 356 357	Sub-letting Period Tender Assessment & approval PMI preparation	12 days 58 days	Sat 29/4/23 Thu 11/5/23	Fri 7/7/23 356											
354 355 356 357 358	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD	12 days 58 days 21 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23	Fri 7/7/23 356 Fri 28/7/23 357											
354 355 356 357 358	Sub-letting Period Tender Assessment & approval PMI preparation	12 days 58 days	Sat 29/4/23 Thu 11/5/23	Fri 7/7/23 356											
354 355 356 357 358 359	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD	12 days 58 days 21 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23	Fri 7/7/23 356 Fri 28/7/23 357											
354 355 356 357 358 359 360	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD Resubmission of detailed design	12 days 58 days 21 days 30 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23 Tue 8/8/23	Fri 7/7/23 356 Fri 28/7/23 357 Wed 6/9/23 358											
354 355 356 357 358 359 360 361	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD Resubmission of detailed design Retendering	12 days 58 days 21 days 30 days 21 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23 Tue 8/8/23 Thu 7/9/23	Fri 7/7/23 356 Fri 28/7/23 357 Wed 6/9/23 358 Wed 27/9/23 359											
354 355 356 357 358 358 359 360 361	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD Resubmission of detailed design Retendering Material submission	12 days 58 days 21 days 30 days 21 days 181 days 792 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23 Tue 8/8/23 Thu 7/9/23 Thu 28/9/23	Fri 7/7/23 356 Fri 28/7/23 357 Wed 6/9/23 358 Wed 27/9/23 359 Tue 26/3/24 360											
354 355 356 357 358 359 360 361 362 363	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD Resubmission of detailed design Retendering Material submission Method Statements & Temporary Works Prepartion & submission of generic method statement for site formation works	12 days 58 days 21 days 30 days 21 days 181 days 792 days tk 60 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23 Tue 8/8/23 Thu 7/9/23 Thu 28/9/23 Fri 30/7/21 Tue 1/11/22	Fri 7/7/23 356 Fri 28/7/23 357 Wed 6/9/23 358 Wed 27/9/23 359 Tue 26/3/24 360 Fri 29/9/23 Fri 30/12/22											
355 354 355 356 357 358 359 360 361 362 363 364 365	Sub-letting Period Tender Assessment & approval PMI preparation Recost trimming by DSD Resubmission of detailed design Retendering Material submission Method Statements & Temporary Works	12 days 58 days 21 days 30 days 21 days 181 days 792 days 1c 60 days ks 60 days	Sat 29/4/23 Thu 11/5/23 Sat 8/7/23 Tue 8/8/23 Thu 7/9/23 Thu 28/9/23 Fri 30/7/21	Fri 7/7/23 356 Fri 28/7/23 357 Wed 6/9/23 358 Wed 27/9/23 359 Tue 26/3/24 360 Fri 29/9/23											

						3 Months Rolling Programme (September 2025 to November 2025)		
ID Ta	ask Name	Duration	Start	Finish	Predecessors	September 2025 October 2025	Novembe	
00	Preparation & submission of generic method statement for G.I works	60 days	Fri 30/7/21	Mon 27/9/21	1	11/9 21/9 1/10 11/10 21/10	1/11 11/11	21/11
366	Preparation & Submission of generic method statement for drainage works	-	Fri 30/7/21	Mon 27/9/21				
367			Tue 1/11/22	Fri 30/12/22				
368 369	Preparation and submission of generic method statement of road works Preparation & submission of generic method statement of elevated walkway	60 days	Thu 1/6/23	Sun 30/7/23				
09	construction	oo uays	1110 1/0/23	Sull 30/1/23				
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				
372	Temporary Work for elevated walkway construction	60 days	Tue 1/8/23	Fri 29/9/23				
373	Temporary Work for road and drainage works	60 days	Fri 30/7/21	Mon 27/9/21				
374	BIM Deliverable	1567 days	Fri 30/7/21	Wed 12/11/25	_			
75	Submission of COBie Information Requirements for Asset Management	30 days	Fri 30/7/21	Sat 28/8/21				
76	Submission of BIM Execution Plan in accordance with the PS Appendix 1.14D	60 days	Fri 30/7/21	Mon 27/9/21				
77	Submission of Combined Services Drawings	90 days	Fri 30/7/21	Wed 27/10/21				
78	-	90 days	Fri 30/7/21	Wed 27/10/21				
79	Nomination of staff or subcontractor to attend BIM skill training courses under	•	Fri 30/7/21	Fri 26/11/21				
7.5	the pre approved list of the CITF managed by the CIC	, .						
80	Collaboration and Model Sharing	60 days	Thu 28/10/21	Sun 26/12/21	376FS+30 days			
81	Monthly Coordination meeting& Submission of monthly BIM progress reports	1417 days	Mon 27/12/21	Wed 12/11/25	380		12/11	
22	& Submission of 4D Simulation Submission of COBie data deliverables	30 days	Sun 14/9/25	Mon 13/10/25	381FS-60 days	14/9		
82		-			,		24/10	
33	Submission of a Fully Coordinated BIM Model with field verified in LOD 500	-	Thu 2/10/25	Fri 31/10/25	381FS-42 days	2/10	31/10	
34		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days	2/10	31/10	
85	·	30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days	2/10	31/10	
86		30 days	Thu 2/10/25	Fri 31/10/25	381FS-42 days	2/10	31/10	
		1572 days	Fri 30/7/21	Mon 17/11/25				
	-	30 days	Fri 30/7/21	Sat 28/8/21				
		30 days	Sun 29/8/21	Mon 27/9/21	388			
90	CRE Site office Construction Works	90 days	Tue 28/9/21	Sun 26/12/21	389			
91	Completion of CRE Site office Construction Works	0 days	Mon 24/1/22	Mon 24/1/22	390			
92	CRE Site office Mobilization & Maintenance	1394 days	Mon 24/1/22	Mon 17/11/25	390,391			17/11
93	Access for Works Area	0 days	Fri 30/7/21	Fri 30/7/21				
94	Maintenance Duration for Works Area	1566 days	Sat 31/7/21	Wed 12/11/25	393FS+1 day		12/11	
95	Vacate / Handover Works Area	0 days	Wed 12/11/25	Wed 12/11/25			♦ 12/11	
96	Setting up Contractor's Project office	90 days	Tue 28/9/21	Sun 26/12/21	4			
97	Contractor Site office Maintenance	1389 days	Mon 24/1/22	Wed 12/11/25	396		12/11	
	onstruction Works	1978 days?	Thu 29/7/21	Thu 25/2/27				
399	Section of Works 1A - Establishment Works for all Landscape Softworks		Thu 29/7/21	Thu 28/7/22				
	in Section 1 of the Works							
100	Commencement of Establishment Work for Section 1	0 days	Fri 30/7/21	Fri 30/7/21				
101	Establishment Work Duration for Section 1	365 days	Thu 29/7/21	Thu 28/7/22	400SS-1 day			
02	Completion of Works in Section 1	0 days	Thu 28/7/22	Thu 28/7/22	401			
03	Section of Works 2 - Portion 8	1577 days?	Fri 30/7/21	Sat 22/11/25				—
04	Portion 8	1577 days?	Fri 30/7/21	Sat 22/11/25	-			-
05	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21	34SS			
06	Mobilization& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21	405			
07	Preparation & submission of MS, Temp works, associated plans & docs	52 days	Fri 20/8/21	Sun 10/10/21	406			
08	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21	407			
09		350 days	Tue 2/11/21	Mon 17/10/22				
10		350 days	Tue 2/11/21	Mon 17/10/22	408			
11		295 days	Tue 7/12/21	Tue 27/9/22	410SS+35 days			
12		20 days	Wed 28/9/22	Mon 17/10/22	411			
13		219 days	Tue 18/10/22	Wed 24/5/23	412			
14		14 days	Tue 18/10/22	Mon 31/10/22	412			
			Mon 14/11/22	Mon 8/1/24	712			
15		421 days						
16		293 days?	Sun 30/7/23	Fri 17/5/24	44500 44055 00 L			
17	* * *	610 days	Mon 14/11/22	Tue 16/7/24	415SS,416FF+60 days,6			
8		30 days	Wed 17/7/24	Thu 15/8/24	417			
9		150 days	Thu 1/2/24	Sat 29/6/24				
20	-	21 days	Sun 26/10/25	Sat 15/11/25	452,482,443,531,537,532	26/10		15/11
	Testing and commissioning of lighting	5 days	Sun 16/11/25	Thu 20/11/25	420,453,454,464		16/11 🧵	20/11
21	Irrigation system	72 days	Mon 18/12/23	Tue 27/2/24				
	3	40 days	Mon 18/12/23	Fri 26/1/24				
21 22 23		40 days						
22	Approval of WWO542	32 days	Sat 27/1/24	Tue 27/2/24	423			
22 23	Approval of WWO542 Approval of Form WWO 046	•	Sat 27/1/24 Mon 2/10/23	Tue 27/2/24 Wed 29/10/25	423		-	



						3 IVIOTILI	ns Rolling Programme (Se		overliber 2025)					
ID Task	Name	Duration	Start	Finish	Predecessors	1/0	September 2025 11/9	21/9	1/10	October 2025 11/10	21/10	1/11	Novembe	r 2025 21/11
490	Staircase B5 & B6	41 days	Wed 9/10/24	Mon 18/11/24		1/9	11/9	21/9	1/10	11/10	21/10	1/11	1 1/ 1 1	21/11
491	Staircase B4 (PMI)	18 days	Fri 1/11/24	Mon 18/11/24		-								
492	pavement	104 days	Mon 10/3/25	Sat 21/6/25		-								
493	Fiinshing to planter wall, seat wall and planter kerb	177 days	Mon 7/4/25	Tue 30/9/25					30/9					
494	Open tender for play area equipment	41 days	Mon 2/9/24	Thu 31/10/24										
495	Design Submission for play area equipment	30 days	Mon 14/10/24	Tue 12/11/24	494	-								
496	Procurement of safety mat and equipment for play area	122 days	Mon 30/12/24	Wed 30/4/25	495	-								
497	Play area slab	70 days	Sat 15/3/25	Fri 23/5/25	495	-								
498	Installation, Inspection/certification of for play equipment	59 days	Mon 23/6/25	Tue 30/9/25					30/9					
499	Soft landscaping works	191 days	Mon 24/3/25	Tue 30/9/25					30/9					
500	Hard Lanscape (Stage 2)	304 days	Fri 1/11/24	Sun 31/8/25										
501	Irrigation system	14 days	Fri 1/11/24	Thu 14/11/24		-{								
502	Staircase B1	28 days	Mon 6/1/25	Sun 2/2/25	501	-								
503	Edge	148 days	Mon 3/2/25	Mon 30/6/25	502	-								
504	Soil replacement	7 days	Mon 17/2/25	Fri 28/3/25	503	-								
505	pavement	14 days	Fri 18/7/25	Thu 31/7/25	477	-								
506	Fiinshing to planter wall, seat wall and planter kerb	21 days	Mon 11/8/25	Sun 31/8/25		31/8								
507	Soft landscaping works	14 days	Mon 11/8/25	Sun 24/8/25		1								
508	Hard Lanscape (Stage 3 Intersaction area)	304 days	Fri 1/11/24	Sun 31/8/25		,								
509	Shelter (1 nos)	289 days	Fri 1/11/24	Sat 16/8/25		-								
510	Construction of footing	14 days	Mon 16/6/25	Sun 29/6/25		11								
511	Fabrication of superstructure	252 days	Fri 1/11/24	Thu 10/7/25		11								
512	Construction of superstructure	37 days	Fri 11/7/25	Sat 16/8/25	511	11								
513	Dwarf Wall DW26	28 days	Mon 17/3/25	Sun 13/4/25		-								
514	Staircase B7	14 days	Thu 2/1/25	Wed 15/1/25		-								
515	Edge	14 days	Mon 24/3/25	Sun 6/4/25	514	-								
516	Soil replacement	7 days	Mon 7/4/25	Sun 13/4/25	515	-								
517	Irrigation system	14 days	Mon 14/4/25	Sun 27/4/25	516	-								
518	pavement	14 days	Mon 28/4/25	Sun 11/5/25	517	-								
519	Fiinshing to planter wall, seat wall and planter kerb	112 days	Mon 12/5/25	Sun 31/8/25		31/8								
520	Soft landscaping works	49 days	Sun 6/7/25	Sat 23/8/25	518	0170								
521	Wing D	1515 days	Thu 2/9/21	Sat 25/10/25	0.0	-								
522	Shelter (2 nos)	1452 days	Thu 2/9/21	Sat 23/8/25		-								
523	Construction of footing	28 days	Mon 2/9/24	Sun 29/9/24		-								
524	Fabrication of superstructure	45 days	Fri 1/11/24	Sun 15/12/24		-								
525	Construction of superstructure	90 days	Mon 26/5/25	Sat 23/8/25		-								
526	Shelter roof	7 days	Thu 2/9/21	Wed 8/9/21		-								
527	U channel and Catchpit (Stage 1, near Site E-1)	46 days	Tue 30/1/24	Fri 15/3/24		-								
528	U channel and Catchpit (Stage 2)	221 days	Fri 1/11/24	Mon 9/6/25		-								
529	Dwarf Wall DW24 & DW25	28 days	Mon 2/9/24	Mon 30/9/24		-								
530	Lighting system	425 days	Tue 2/7/24	Sat 30/8/25		-								
531	Cable Duct	125 days	Tue 2/7/24	Sun 3/11/24		-								
532	cable pit	125 days	Tue 2/7/24	Sun 3/11/24		-								
533	Cable Duct (Intersection area)	22 days	Sat 9/8/25	Sat 30/8/25		0/8								
534	cable pit (Intersection Area)	22 days	Sat 9/8/25	Sat 30/8/25		0/8								
535	Lamp post footing	125 days	Tue 2/7/24	Sun 3/11/24		-								
536	Installation of lamp post	112 days	Sun 4/5/25	Sat 23/8/25		-								
537	Pillar Box	60 days	Mon 2/12/24	Thu 30/1/25		-								
538	Irrigation system	45 days	Mon 2/12/24	Wed 15/1/25		-								
539	Retainning Wall	671 days	Tue 30/8/22	Sun 30/6/24		11								
558	Staircase D1	30 days	Tue 2/7/24	Wed 31/7/24		-								
559	Staircase D2 & D3	30 days	Wed 2/10/24	Thu 31/10/24		1								
560	Planter(community garden)	166 days	Mon 4/11/24	Fri 18/4/25		1								
561	Edge	75 days	Mon 4/11/24	Fri 17/1/25										
562	Planter/Seat	80 days	Thu 2/1/25	Sat 22/3/25		-								
563	Soil replacement	67.5 days	Fri 3/1/25	Mon 24/3/25	562	-								
564	irrigation	108 days	Mon 13/1/25	Wed 30/4/25		1								
565	pavement	160 days	Mon 10/2/25	Sat 19/7/25										
566	Finishing to planter wall, seat wall and planter kerb	190 days	Tue 25/3/25	Tue 30/9/25					30/9					
567	Tree Plaza	43 days	Mon 2/12/24	Mon 13/1/25					50/3					
568	Soft landscaping works	170 days	Mon 14/4/25	Tue 30/9/25					30/9					
569	Railing/fence and signage	27.8 days	Mon 14/7/25	Sat 25/10/25	568) 50,0			5/10		
570	Store room	262 days	Fri 3/1/25	Sun 21/9/25		-								
370								<u> </u>						
	T-d.													
1	Task Critical Task	M	iiestone 💛	Sumn	nary									

						O IVIO	onths Rolling Programme (September 2025 to	11010111001 2020)						
ID	ask Name	Duration	Start	Finish	Predecessors	4/0	September 2025	4/40	October 2025	0440		4144	November	
571	Store room design	72 days	Fri 3/1/25	Sat 15/3/25		1/9	11/9 21/9	1/10	11/10	21/10		1/11	11/11	21/11
572	<u> </u>	7 days	Mon 16/6/25	Sun 22/6/25		-								
573		12 days	Mon 28/7/25	Fri 8/8/25	572	-								
574		7 days	Mon 15/9/25	Sun 21/9/25	312	-	15/9 21/9							
		· ·				-	15/5							
575		14 days	Sun 26/10/25	Sat 8/11/25	450	-				00/40	1			
576		14 days	Sun 26/10/25	Sat 8/11/25	453	-				26/10			3/11	
577	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works	365 days	Sun 26/10/25	Mon 14/12/26						'	•			
578	Commencement of Establishment Work for Section 2	0 days	Sun 26/10/25	Sun 26/10/25	521FF+1 day	-					26/10			
579	Establishment Work Duration for Section 2	365 days	Sun 26/10/25	Mon 14/12/26	578SS-1 day	-				26/10				
580		0 days	Mon 14/12/26	Mon 14/12/26	579	-				_0.10				
581		763 days	Fri 30/7/21	Thu 31/8/23		-								
582		276 days	Tue 29/11/22	Thu 31/8/23		-								
583		7 days	Tue 29/11/22	Mon 5/12/22	46SS	-								
	Mobilization& Site Clearance		Tue 6/12/22	Mon 19/12/22	583	-								
584		14 days												
585		7 days	Tue 20/12/22	Mon 26/12/22	584	-								
586		50 days	Thu 13/7/23	Thu 31/8/23		_								
587		50 days	Thu 13/7/23	Thu 31/8/23	585									
588	Greywater pipes and manholes	50 days	Thu 13/7/23	Thu 31/8/23	587SS									
589	Laying of 75mm thick milled asphalt chips	7 days	Fri 25/8/23	Thu 31/8/23	588FF									
590	Lighting	163 days	Wed 22/3/23	Thu 31/8/23] [
591	Application for electricity power supply	83 days	Wed 22/3/23	Mon 12/6/23		11								
592	Lighting design	140 days	Wed 22/3/23	Tue 8/8/23	591SS	11								
593	Installation including ducting, draw pit and lighting	23 days	Wed 9/8/23	Thu 31/8/23	592,588FF	11								
594	Portion 3	702 days	Wed 29/9/21	Thu 31/8/23		-								
595	Access date	0 days	Wed 29/9/21	Wed 29/9/21	51SS	-								
596	Deferred possession (CE 004 & 006)	61 days	Wed 29/9/21	Sun 28/11/21		-								
597	· · · · · · · · · · · · · · · · · · ·	7 days	Mon 29/11/21	Sun 5/12/21	596	-								
598		14 days	Mon 6/12/21	Sun 19/12/21	597	-								
599		52 days	Mon 20/12/21	Wed 9/2/22	598	-								
600		21 days	Thu 10/2/22	Wed 2/3/22	599	-								
		92 days	Thu 1/6/23	Thu 31/8/23	600	-								
601					000	-								
602		30 days	Wed 2/8/23	Thu 31/8/23		-								
603		7 days	Mon 3/10/22	Sun 9/10/22										
604		30 days	Wed 2/8/23	Thu 31/8/23	601FF,602FF	-								
605		763 days	Fri 30/7/21	Thu 31/8/23		_								
606		7 days	Fri 30/7/21	Thu 5/8/21	56SS	_								
607	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23	602FF,611FF									
608	GI works (PMI 006)	10 days	Mon 10/10/22	Wed 19/10/22	603									
609	Portion 5	551 days	Sun 27/2/22	Thu 31/8/23										
610	Provision of site access [212 days after starting date as per Contract]	7 days	Sun 27/2/22	Sat 5/3/22	61SS									
611	Soft landscaping works - hydroseeding	30 days	Wed 2/8/23	Thu 31/8/23										
612	Installation of chain link fencing	31 days	Tue 1/8/23	Thu 31/8/23	611FF	11								
613	Section of Works 3A - Establishment Works for all Landscape Softworks	365 days	Fri 1/9/23	Fri 30/8/24		11								
	in Section 3 of the Works		F 100'-'-	- 1		11								
617	Section of Works 4 - Portions 6, 12	1977 days?	Fri 30/7/21	Thu 25/2/27										
618		1359 days?	Sat 29/1/22	Sat 18/10/25					▼					
619	· · · · · · · · · · · · · · · · · · ·	0 days	Sat 29/1/22	Sat 29/1/22	73SS]]								
620	Deferred possession	81 days	Sat 29/1/22	Tue 19/4/22	619]]								
621	Mobilization& Site Clearance	14 days	Wed 20/4/22	Tue 3/5/22	620] [
622	Issuance of site sketch for retaining wall (Letter C10/500/400739)	0 days	Wed 14/9/22	Wed 14/9/22	621									
623	Drainage works under PMQP 004	0 days	Fri 14/10/22	Fri 14/10/22	621] [
624	Application for electricity power supply	421 days	Mon 14/11/22	Mon 8/1/24	415SS	11								
625	Design Change of Layout (PMI-085)	1 day	Wed 5/7/23	Wed 5/7/23		11								
626	Park Lighting Design	612 days	Mon 14/11/22	Wed 17/7/24	624SS	11								
627	Approval of lighting design by LCSD	30 days	Thu 18/7/24	Fri 16/8/24	626	11								
628		14 days	Fri 14/10/22	Thu 27/10/22	627	11								
629		618 days	Tue 2/5/23	Wed 8/1/25		11								
630	-	112 days	Tue 2/5/23	Mon 21/8/23		11								
631		110 days	Tue 9/5/23	Sat 26/8/23	630SS+7 days	- 1								
		169 days	Tue 9/5/23	Tue 31/10/23	631SS+7 days	-								
632		136 days	Mon 3/7/23	Wed 15/11/23	632SS+10 days									
633														
634		170 days	Thu 30/11/23	Fri 17/5/24	633	11								
635	PMI for Grey Water	30 days	Sat 18/5/24	Sun 16/6/24	634									
	Task Critical Task	Mi	lestone 🔷	Summa	ary 🔻									

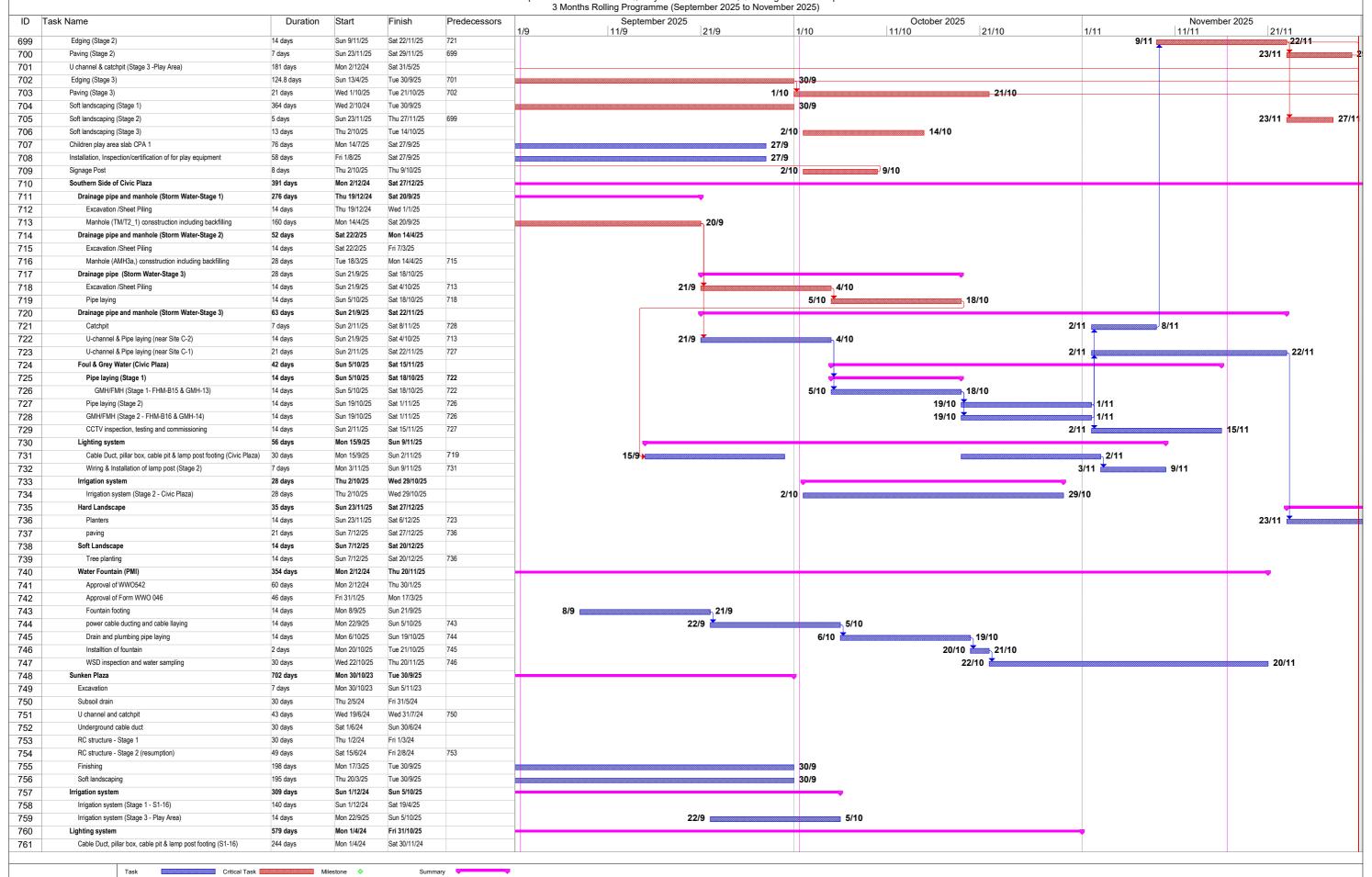
וטו						ng Programme (September 2025 to November 2025)		
	Task Name	Duration	Start	Finish	Predecessors	September 2025 October 11/9 21/9 1/10 11/10	2025	November 2025
636	pipe laying and drainage structure (Stage 1)	183 days	Wed 31/1/24	Wed 31/7/24		11/9 21/9 1/10 11/10	21/10	1/11 11/11 21/11
637	pipe laying and drainage structure (Stage 2)	7 days	Thu 2/1/25	Wed 8/1/25				
638	Backfilling (15 layers)	117 days	Tue 16/4/24	Sat 10/8/24				
639	Retaining wall RWA19	382 days?	Fri 1/12/23	Mon 16/12/24				
640	Blinding layer (1-13)	45 days	Fri 1/12/23	Sun 14/1/24				
641	Base slab (1-13)	50 days	Mon 18/12/23	Mon 5/2/24	640SS+5 days			
642	Wall stem (1-13)	59 days	Tue 2/1/24	Thu 29/2/24	641SS+9 days			
643	pipe laying and drainage structure	30 days	Thu 1/8/24	Fri 30/8/24				
644	Backfilling (1-11)	69 days	Mon 2/9/24	Sat 9/11/24				
645	Blinding layer (14-18)	28 days	Sat 4/5/24	Fri 31/5/24				
646	Base slab (14-18)	28 days	Sun 5/5/24	Sat 1/6/24				
647	Wall stem (14-18)	45 days	Thu 9/5/24	Sat 22/6/24				
648	Pipe Laying and Drainage Structure (12-18)	148 days?	Mon 22/7/24	Mon 16/12/24				
649	Backfilling (12-18)	71 days	Mon 2/9/24	Mon 11/11/24				
650	Railing for RWA 19 & 20	170 days	Fri 2/5/25	Sat 18/10/25			18/10	
651	U channel & catchpit (1-11)	113 days	Mon 10/6/24	Mon 30/9/24				
652	U channel & catchpit (12-18)	232 days	Sat 2/11/24	Sat 21/6/25				
653	edging (1-11)	144 days	Mon 10/6/24	Thu 31/10/24				
654	edging (12-18)	6 days	Mon 18/11/24	Sat 23/11/24				
655	pavement	222 days	Mon 9/9/24	Sat 19/7/25				
656	Finsihing	223 days	Mon 10/3/25	Sat 18/10/25	654		18/10	
657	Soft landscaping works (Stage 1)	24 days	Mon 2/9/24	Wed 25/9/24				
658	Soft landscaping works (Stage 2)	100 days	Mon 23/6/25	Tue 30/9/25		30/9		
659	CCTV inspection, testing and commissioning	21 days	Mon 11/8/25	Sun 31/8/25				
660	Irrigation system Submission	716 days	Tue 16/5/23	Wed 30/4/25				
661	Contractor's design	79 days	Tue 16/5/23	Wed 2/8/23				
662	Approval of WWO542	40 days	Wed 1/11/23		661			
663	Approval of Form WWO 046	32 days	Mon 11/12/23		662			
664	Approval of WWO542 (amendment)	30 days	Mon 30/12/24	Tue 28/1/25				
665	Approval of Form WWO 046 (amendment)	30 days	Wed 29/1/25		664			
666	Irrigation system	163 days	Mon 8/7/24	Wed 30/4/25				
667	Lighting system	464 days	Mon 24/6/24	Tue 30/9/25				
668	Cable Duct, pillar box, cable pit & lamp post footing	311 days	Mon 24/6/24	Wed 30/4/25				
669	Cable wiring & accessories	83 days	Mon 17/2/25	Sat 10/5/25				
670	Installation of lamp post	82 days	Sun 11/5/25		669			
671	Testing and Commissioning of lighting	16 days	Mon 15/9/25	Tue 30/9/25	670	15/9 30/9		
672	Portion 12	1612 days?	Fri 30/7/21	Sat 27/12/25				
673	Provision of site access [on starting date as per Contract]	7 days	Fri 30/7/21	Thu 5/8/21				
674	Mobilization& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21				
675	Preparation& submission of MS, Temp works, associated plans & docs	52 days	Fri 20/8/21	Sun 10/10/21				
	·							
676	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21				
676 677	Engineer's AIP of MS, Temp works, plans& associated docs Additional GI at Portion 12 (PMI 005)		Mon 11/10/21 Wed 1/6/22					
677		22 days		Mon 1/11/21				
677 678	Additional GI at Portion 12 (PMI 005)	22 days 15 days	Wed 1/6/22	Mon 1/11/21 Wed 15/6/22				
677 678 679	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation	22 days 15 days 379 days	Wed 1/6/22 Tue 2/11/21	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22				
677 678 679 680	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling	22 days 15 days 379 days 364 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22				
677 678 679 680 681	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1)	22 days 15 days 379 days 364 days 245 days 105 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22				
677 678 679 680 681 682	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling	22 days 15 days 379 days 364 days 245 days 105 days 97 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23				
677 678 679 680 681 682 683	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days?	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23				
677 678 679 680 681 682 683 684	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24				
677 678 679 680 681 682 683 684 685	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Mon 28/8/23	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25				
677 678 679 680 681 682 683 684 685 686	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days?	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Sun 12/5/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 11/5/24 Sat 20/7/24			18/10	
677 678 679 680 681 682 683 684 685 686 687	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/3/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 11/5/24 Sat 20/7/24 Sat 18/10/25			18/10	
677 678 679 680 681 682 683 684 685 686 687	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 11/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24			18/10	
677 678 679 680 681 682 683 684 685 686 687 688	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/3/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24 Mon 7/10/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 11/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24			18/10	
677 678 679 680 681 682 683 684 685 686 687 688 689 690	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 14 days 123 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/3/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24 Mon 7/10/24 Fri 31/5/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 11/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 689 690	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 14 days 123 days 48 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 21/7/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 689 690 691	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 2/9/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 21/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 17/5/25	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16) Dwaft wall (resumption) - Stage 2	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days 286 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 13/5/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25 Mon 4/3/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 21/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 17/5/25 Sat 14/12/24	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16) Dwaft wall (resumption) - Stage 2 Confirmation of recess cover for u channel	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days 286 days 1 day	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 13/5/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25 Mon 4/3/24 Thu 25/4/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 21/5/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 17/5/25 Sat 14/12/24 Thu 25/4/24	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 690 691 692 693 694 695	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16) Dwaft wall (resumption) - Stage 2 Confirmation of recess cover for u channel U channel & catchpit (Stage 1-S1-16)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days 48 days 10 days 11 day 239 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 13/5/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25 Mon 4/3/24 Thu 25/4/24 Mon 15/7/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 20/7/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 17/5/25 Sat 14/12/24 Thu 25/4/24 Mon 10/3/25	689		18/10	
677 678 679 680 681 682 683 684 685 686 687 688 690 691 692 693 694 695 696	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16) Dwaft wall (resumption) - Stage 2 Confirmation of recess cover for u channel U channel & catchpit (Stage 1-S1-16) Edging (Stage1)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days 286 days 1 day 239 days 265 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 13/5/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25 Mon 4/3/24 Thu 25/4/24 Mon 15/7/24 Mon 15/7/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 14/12/24 Thu 25/4/24 Mon 10/3/25 Sat 11/5/25 Sat 17/5/25		20/0	18/10	
677 678 679 680 681 682 683 684 685 686 687 688 690 691 692 693 694 695	Additional GI at Portion 12 (PMI 005) Drainage pipe and manhole Excavation Pipe laying and manhole consstruction including backfilling Dwaf wall construction (Stage 1) Awaiting for revision of design by PM due to interface Staircase Footing (S1-10) Slab & Vertical Wall (S1-10) Wing Wall Seat and railing (precast) Footing (S12-16) Footing (S12-16) Footing (S11) Slab & Vertical & Wing Wall (S12-15) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S11) Slab & Vertical & Wing Wall (S16) Dwaft wall (resumption) - Stage 2 Confirmation of recess cover for u channel U channel & catchpit (Stage 1-S1-16)	22 days 15 days 379 days 364 days 245 days 105 days 97 days 796 days? 231 days 258 days 70 days? 412 days 141 days 123 days 48 days 33 days 48 days 10 days 11 day 239 days	Wed 1/6/22 Tue 2/11/21 Tue 2/11/21 Wed 16/3/22 Wed 16/11/22 Wed 1/3/23 Tue 15/8/23 Tue 15/8/23 Mon 28/8/23 Sun 12/5/24 Mon 13/5/24 Mon 7/10/24 Fri 31/5/24 Mon 21/10/24 Tue 15/4/25 Mon 4/3/24 Thu 25/4/24 Mon 15/7/24	Mon 1/11/21 Wed 15/6/22 Tue 15/11/22 Mon 31/10/22 Tue 15/11/22 Tue 28/2/23 Mon 5/6/23 Sat 18/10/25 Mon 1/4/24 Sat 20/7/24 Sat 18/10/25 Mon 30/9/24 Sun 20/10/24 Mon 30/9/24 Sat 7/12/24 Sat 14/12/24 Thu 25/4/24 Mon 10/3/25 Sat 17/5/25 Tue 30/9/25	689 696 709	30/9	18/10	16/11

China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

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

Updated on 05 Sep 2025

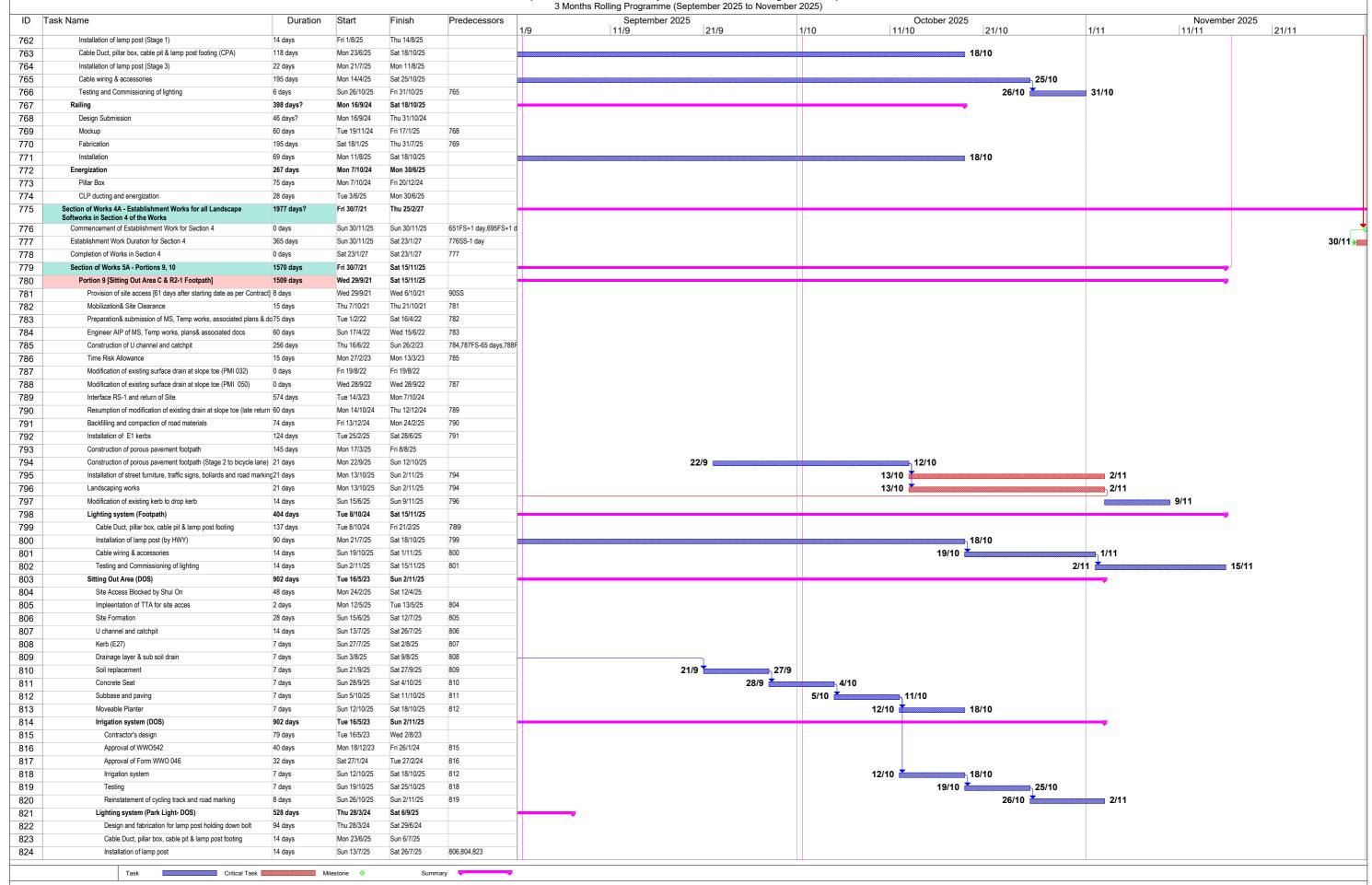


China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

Updated on 05 Sep 2025

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

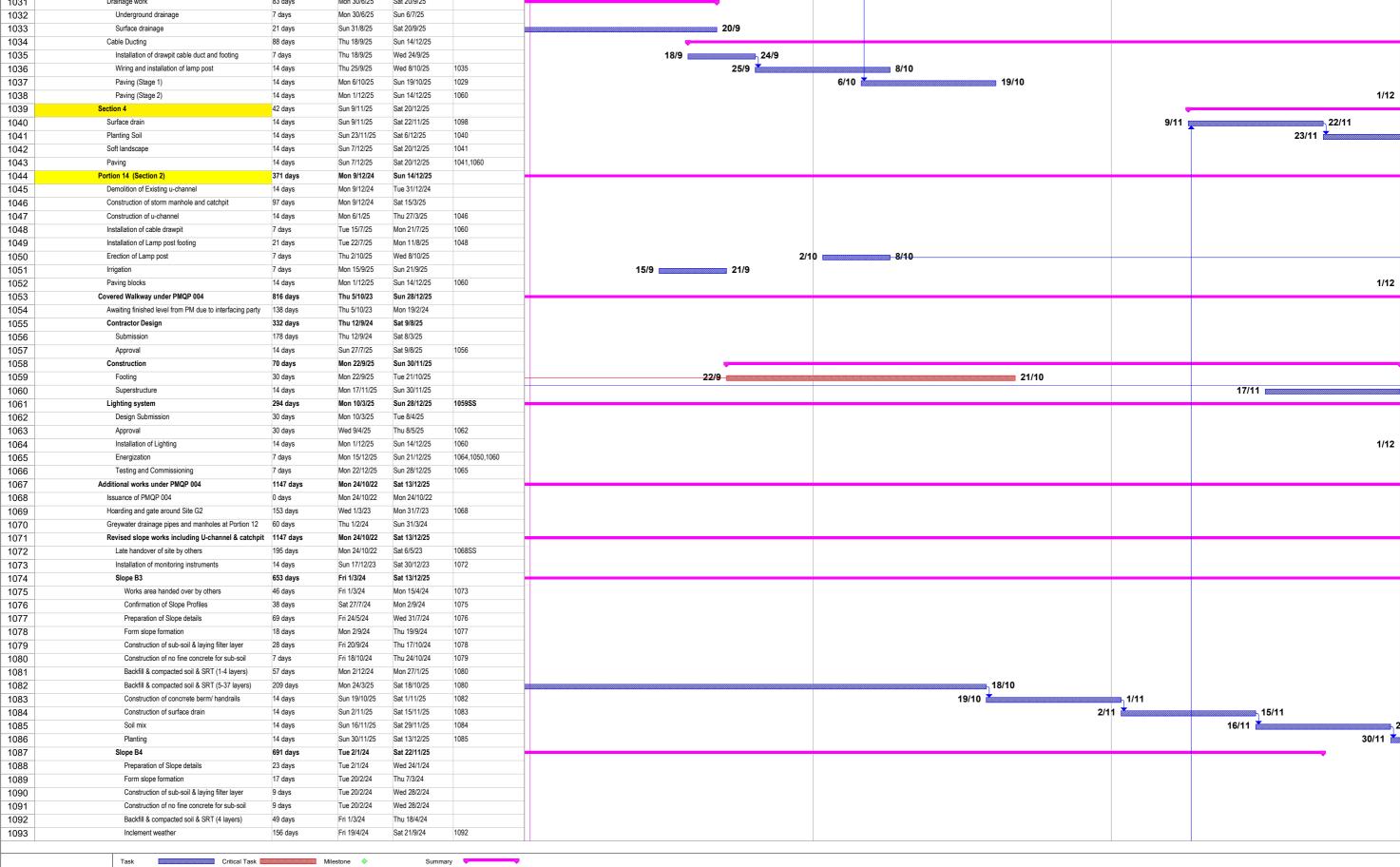


						3 Months Rolling Programme (September 20	025 to November 2025)		
ID Task	Name	Duration	Start	Finish	Predecessors	September 2025		October 2025	November 2025
005	Cable wining 9 accession	14 days	0 07/7/05	Cat 0/9/25		1/9 11/9 21/9	1/10	11/10 21/10	1/11 11/11 21/11
825	Cable wiring & accessories	14 days	Sun 27/7/25	Sat 9/8/25	824	0/0			
826		28 days	Sun 10/8/25	Sat 6/9/25	825	6/9			
827	Portion 10	1524 days	Fri 30/7/21	Tue 30/9/25	0500				
828		7 days	Fri 30/7/21	Thu 5/8/21	95SS				
829		50 days	Fri 6/8/21	Fri 24/9/21	828				
830	Mobilization, access arrangements, logistic plan & Site Clearance		Sat 25/9/21	Mon 15/11/21	829				
831	Preparation & submission of MS, Temp works, associated plans & docs	37 days	Tue 16/11/21	Wed 22/12/21	830				
832	Time Risk Allowance	16 days	Thu 23/12/21	Fri 7/1/22	831				
833	Main access blocked by C1at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23					
834	Engineer's AIP of MS, Temp.works, plans & associated docs	21 days	Sat 8/1/22	Fri 28/1/22	832				
835	Demolition and removal of disused water pipe and sprinkler system	160 days	Sat 29/1/22	Thu 7/7/22	834				
836	Repair of cracks at drainage channel and concrete berm	884 days	Thu 1/9/22	Fri 31/1/25	835				
837	Reinstatement of joint sealant at drainage channel	899 days	Fri 16/9/22	Sun 2/3/25	835				
838		31 days	Sun 31/8/25	Tue 30/9/25			30/9		
839		568 days	Sun 31/12/23	Sun 20/7/25					
840		30 days	Sun 31/12/23	Mon 29/1/24	833				
	(Stage 1 at +330 mPD)								
841	Installation of wire mesh (Stage 2 at +330mPD)	30 days	Tue 15/10/24	Wed 13/11/24					
842		7 days	Tue 18/2/25	Mon 24/2/25	877				
843		14 days	Mon 24/3/25	Sun 6/4/25	842				
844		7 days	Sat 21/9/24	Fri 27/9/24	843				
845	Repainting of handrailing	19 days	Wed 2/7/25	Sun 20/7/25					
846		298 days	Sat 21/9/24	Tue 15/7/25					
847		21 days	Sat 21/9/24	Fri 11/10/24	843				
848		7 days	Sat 12/10/24	Fri 18/10/24	847				
849		7 days	Wed 2/7/25	Tue 8/7/25	0.40				
850	Removal of existing handrailing and steel landing plates and re-construction	7 days	Wed 9/7/25	Tue 15/7/25	849				
851	Construction of wire mesh	73 days	Thu 2/1/25	Sat 15/3/25					
852	Slope Works at Feature No. 11NE-D/C977 (300m)	409 days	Sun 26/5/24	Tue 8/7/25					
853	Construction of wire mesh	28 days	Sat 1/2/25	Sat 29/3/25	851				
854	Construction of concrete berm	14 days	Sat 12/10/24	Fri 25/10/24	847				
855	Construction of handrailing	7 days	Sun 26/5/24	Sat 1/6/24					
856	Repair drainage channel	7 days	Wed 2/7/25	Tue 8/7/25					
857	Slope Works at Feature No. 11NE-D/C986 (190m)	432 days	Fri 3/5/24	Tue 8/7/25					
858	Filling of void with cement soil	7 days	Wed 2/7/25	Tue 8/7/25					
859	Construction of concrete berm	14 days	Fri 3/5/24	Thu 16/5/24					
860	Installation of hand railings	6 days	Fri 26/7/24	Wed 31/7/24					
861	Construction of wire mesh	55 days	Mon 20/1/25	Sat 15/3/25					
862		441 days	Fri 18/8/23	Thu 31/10/24					
863	Filling of void with cement soil	30 days	Wed 1/11/23	Thu 30/11/23					
864		30 days	Fri 1/12/23	Sat 30/12/23	863				
865		30 days	Wed 2/10/24	Thu 31/10/24					
866		90 days	Fri 18/8/23	Wed 15/11/23					
867	Slope Works at Feature No. 11NE-D/C987 (90m)	863 days	Fri 8/7/22	Sat 16/11/24	000				
868		30 days	Mon 1/1/24	Tue 30/1/24	863				
869		7 days	Thu 8/2/24	Wed 14/2/24	868				
870	<u>-</u>	30 days	Fri 8/7/22 Fri 1/11/24	Sat 6/8/22 Sat 16/11/24	835				
871	Hydroseeding Repainting of handrailing	16 days 90 days	Fri 18/8/23	Wed 15/11/23					
872 873	· · · · · · · · · · · · · · · · · · ·		Sat 1/6/24	Thu 28/8/25					
874		454 days 44 days	Wed 2/7/25	Thu 14/8/25	878				
875	<u> </u>	14 days	Fri 15/8/25	Thu 14/6/25	874				
876		60 days	Sat 1/6/24	Tue 30/7/24					
877	<u> </u>	7 days	Mon 23/6/25	Sun 29/6/25					
878		85 days	Mon 6/1/25	Mon 31/3/25					
879		294 days	Fri 18/8/23	Thu 6/6/24					
880		14 days	Fri 17/5/24	Thu 30/5/24					
881		7 days	Fri 31/5/24	Thu 6/6/24	880				
882		90 days	Fri 18/8/23	Wed 15/11/23					
883		21 days	Fri 31/5/24	Thu 20/6/24					
884		14 days	Fri 31/5/24	Thu 13/6/24	880				
885		7 days	Fri 14/6/24	Thu 20/6/24	884				
886	<u> </u>	28 days	Fri 14/6/24	Thu 11/7/24					
		1				1			I
	Task Critical Task	M	lilestone 🔷	Summ	ary				

ID Task						3	Months Rolling Programme (Se	eptember 2025 to Novemb	er 2025)					
	k Name	Duration	Start	Finish	Predecessors		September 202			October 2025			November 2025	lavv
887	Removal of disused pipes	21 days	Fri 14/6/24	Thu 4/7/24	884	1/9	11/9	21/9	1/10	11/10	21/10	1/11	11/11	21/11
888		7 days	Fri 5/7/24	Thu 11/7/24	887	-								
889	Slope Works at Feature No. 11NE-D/FR657 (63m)	169 days	Thu 25/1/24	Thu 11/7/24	001	-								
			Fri 5/7/24	Thu 11/7/24	887	-								
890		7 days			001	-								
891	Repainting of handrailing	140 days	Thu 25/1/24	Wed 12/6/24		_								
892		57 days	Thu 1/2/24	Thu 28/3/24		_								
893		28 days	Thu 1/2/24	Wed 28/2/24		_								
894	Installation of hand railings (~30m)	14 days	Thu 29/2/24	Wed 13/3/24	893									
895	Repainting of handrailing	14 days	Thu 14/3/24	Wed 27/3/24	894									
896	Slope Works at Feature No. 11NE-D/C980 (55m)	104 days	Thu 29/2/24	Tue 11/6/24										
897	Construction of concrete berm	14 days	Thu 29/2/24	Wed 13/3/24	893									
898	Installation of hand railings	7 days	Thu 14/3/24	Wed 20/3/24	897									
899	Repainting of handrailing	90 days	Thu 14/3/24	Tue 11/6/24		1								
900	Slope Works at Feature No. 11NE-D/C174 (70m)	14 days	Thu 14/3/24	Wed 27/3/24										
901	Reinstatement of sprayed concrete	14 days	Thu 14/3/24	Wed 27/3/24	897	-								
902		28 days	Wed 31/1/24	Tue 27/2/24		-								
903		28 days	Wed 31/1/24	Tue 27/2/24		-								
903	<u> </u>	7 days	Thu 17/8/23	Wed 23/8/23		-								
						-								
905		1441 days	Fri 30/7/21	Wed 9/7/25		-								
906		8 days	Fri 30/7/21	Fri 6/8/21		-								
907	<u> </u>	8 days	Fri 30/7/21	Fri 6/8/21		_								
908		8 days	Wed 2/7/25	Wed 9/7/25		_								
909	Slope Works at Feature No. 11NE-D/C1004 (375m)	14 days	Wed 2/7/25	Tue 15/7/25										
910	Repainting of handrailing	14 days	Wed 2/7/25	Tue 15/7/25										
911	Slope Works at Feature No. 11NE-D/C998 (409m)	760 days	Mon 14/2/22	Thu 14/3/24										
912	Construction of concrete maintenance staircase	19 days	Mon 14/2/22	Fri 4/3/22										
913	Handrailing	14 days	Fri 1/3/24	Thu 14/3/24		1								
914	Section of Works 5Al - Establishment Works for all Landscape	1977 days?	Fri 30/7/21	Thu 25/2/27		1								
	Softworks in Section 5A of the Works					_								
915	Commencement of Establishment Work for Section 5A	0 days	Wed 1/10/25	Wed 1/10/25	827FF+1 day				1/10					
916	Establishment Work Duration for Section 5A	365 days	Wed 1/10/25	Sat 14/11/26	915SS-1 day			1/10	0-)					
917	Completion of Works in Section 5A	0 days	Sat 14/11/26	Sat 14/11/26	916									
918	Section of Works 5B - Portion 11	954 days	Sun 27/2/22	Mon 7/10/24										
919	Portion 11	954 days	Sun 27/2/22	Mon 7/10/24		1								
920		0 days	Sun 27/2/22	Sun 27/2/22										
	Contract]	201.12				_								
921		231.47 days	Tue 14/3/23	Sat 31/8/24		_								
922	Provision of site access and stockpile area for works at Portion 9	-	Mon 7/10/24	Mon 7/10/24	921									
923	Section of Works 6 - Portion 7	494 days	Tue 29/11/22	Fri 5/4/24										
924	Portion 7	494 days	Tue 29/11/22	Fri 5/4/24										
925	Access date [487 days after starting date as per Contract]	0 days	Tue 29/11/22	Tue 29/11/22	112SS									
926	Deferred possession (PMI 58)	90 days	Tue 29/11/22	Sun 26/2/23	925									
927	Provision of site access	7 days	Mon 27/2/23	Sun 5/3/23	926	1								
928	Mobilization& Site Clearance	60 days	Mon 6/3/23	Thu 4/5/23	927	1								
929	Time Risk Allowance	15 days	Fri 5/5/23	Fri 19/5/23	928	1								
930		30 days	Fri 1/12/23	Sat 30/12/23	928,929	-								
931		30 days	Sun 31/12/23	Mon 29/1/24	930	-								
		, -	Tue 19/3/24	Fri 5/4/24		-								
	Road Paying work and associates street furniture	15 days				-			1					
932		15 days												
932 933	Soft landscaping works	10 days	Wed 20/3/24	Fri 29/3/24		-								
932 933 934	Soft landscaping works Irrigation system	10 days 196 days	Wed 20/3/24 Sat 16/9/23	Fri 29/3/24 Fri 29/3/24		_								
932 933 934 935	Soft landscaping works Irrigation system Contractor's design	10 days 196 days 45 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23	205	_								
932 933 934 935 936	Soft landscaping works Irrigation system Contractor's design Approval of WWO542	10 days 196 days 45 days 30 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23	935	- - - -								
932 933 934 935	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046	10 days 196 days 45 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23	936	-								
932 933 934 935 936	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046	10 days 196 days 45 days 30 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23		-								
932 933 934 935 936 937	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046	10 days 196 days 45 days 30 days 21 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23	936	-								
932 933 934 935 936 937 938	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system	10 days 196 days 45 days 30 days 21 days 10 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23	936	-								
932 933 934 935 936 937 938 939	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits	10 days 196 days 45 days 30 days 21 days 10 days 10 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24	936									
932 933 934 935 936 937 938 939	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24	936									
932 933 934 935 936 937 938 939 940 941	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days 858 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24 Tue 29/11/22	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24 Fri 4/4/25	936									
932 933 934 935 936 937 938 939 940 941 942 943	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works Commencement of Establishment Work for Section 6 Completion of Works in Section 6	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days 858 days 0 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24 Tue 29/11/22 Tue 29/11/22	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24 Fri 4/4/25 Tue 29/11/22	936 937									
932 933 934 935 936 937 938 939 940 941 942 943 944	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works Commencement of Establishment Work for Section 6 Completion of Works in Section 6 Establishment Work Duration for Section 6	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days 858 days 0 days 0 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24 Tue 29/11/22 Tue 29/11/22 Fri 5/4/24 Fri 5/4/24	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24 Fri 4/4/25 Tue 29/11/22 Fri 5/4/24 Fri 4/4/25	936 937 942									
932 933 934 935 936 937 938 939 940 941 942 943 944 945	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works Commencement of Establishment Work for Section 6 Completion of Works in Section 6 Establishment Work Duration for Section 6 Section of Works 7A - Portions 13a, 14 (DELETED)	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days 858 days 0 days 0 days 479 days	Wed 20/3/24 Sat 16/9/23 Set 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24 Tue 29/11/22 Fri 5/4/24 Fri 5/4/24 Fri 5/4/24 Fri 30/7/21	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24 Fri 4/4/25 Tue 29/11/22 Fri 5/4/24 Fri 4/4/25 Sun 20/11/22	936 937 942									
932 933 934 935 936 937 938 939 940 941 942 943 944	Soft landscaping works Irrigation system Contractor's design Approval of WWO542 Approval of Form WWO 046 Underground water supply for irrigation Irrigation system Modification of Manhole and catchpits Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works Commencement of Establishment Work for Section 6 Completion of Works in Section 6 Establishment Work Duration for Section 6 Section of Works 7A - Portions 13a, 14 (DELETED)	10 days 196 days 45 days 30 days 21 days 10 days 10 days 12 days 858 days 0 days 0 days	Wed 20/3/24 Sat 16/9/23 Sat 16/9/23 Wed 1/11/23 Fri 1/12/23 Fri 22/12/23 Fri 1/3/24 Mon 18/3/24 Tue 29/11/22 Tue 29/11/22 Fri 5/4/24 Fri 5/4/24	Fri 29/3/24 Fri 29/3/24 Mon 30/10/23 Thu 30/11/23 Thu 21/12/23 Sun 31/12/23 Sun 10/3/24 Fri 29/3/24 Fri 4/4/25 Tue 29/11/22 Fri 5/4/24 Fri 4/4/25	936 937 942									

	Name	Duration	Start	Finish	Predecessors	September 2025			October 202			November 2025
						11/9	21/9	1/10	11/10	21/10	1/11	11/11 21/11
1	Establishment Work Duration for Section 7A	365 days	Fri 30/7/21	Fri 29/7/22								
72	Completion of Works in Section 7A	0 days	Fri 29/7/22	Fri 29/7/22	971							
3	Section of Works 7B - Portions 13b, 15	1402 days	Sat 26/2/22	Sun 28/12/25								
74	Portion 13b & 15	1402 days	Sat 26/2/22	Sun 28/12/25								
75	Provision of site access [212 days after starting date as per Contract]	7 days	Sun 27/2/22	Sat 5/3/22	135							
76	Deferred possession	52 days	Sat 26/2/22	Mon 18/4/22	135SS							
77	Mobilization& Site Clearance	21 days	Tue 19/4/22	Mon 9/5/22	976							
778	Time Risk Allowance	15 days	Tue 10/5/22	Tue 24/5/22	977,365							
	Portion 13b	· .	Wed 25/5/22	Sun 28/12/25	977,303							
79		1314 days			970							
080	Elevated walkway	1258 days	Wed 25/5/22	Sun 2/11/25	077.005							
81		60 days	Wed 25/5/22	Sat 23/7/22	977,365							
982		447 days	Sun 24/7/22	Fri 13/10/23	977,365,978,981							
83	Wall RWA10	447 days	Sun 24/7/22	Fri 13/10/23								
84	Excavation	100 days	Sun 24/7/22	Mon 31/10/22	981							
85	Cutting away existing coping by wire sawing	75 days	Tue 1/11/22	Sat 14/1/23	984							
986	machine Hacking away existing wall stem by hydraulic	45 days	Sun 15/1/23	Tue 28/2/23	985							
60	breaker (existing wall stell by Hydraulic breaker (existing vertical bar to be retained for further connection)	40 days	Juli 13/1/23	106 20/2/23	505							
87	Construction of new RC wall stem	86 days	Mon 17/7/23	Tue 10/10/23	986							
88	Backfilling	4 days	Tue 10/10/23	Fri 13/10/23								
189	Wall RWA9	165 days	Thu 16/3/23	Sun 27/8/23								
90	Excavation	15 days	Thu 16/3/23	Thu 30/3/23	986FS+15 days							
991	Hacking away existing wall stem by hydraulic	60 days	Fri 31/3/23	Mon 29/5/23	990							
	breaker (existing vertical bar to be retained for further connection)	,.										
92	Construction of new RC wall stem	75 days	Sat 10/6/23	Wed 23/8/23	991							
93	Backfilling	4 days	Thu 24/8/23	Sun 27/8/23	992							
94	Bearing	252 days	Thu 16/3/23	Wed 22/11/23								
95	Material submission for appproval	30 days	Thu 16/3/23	Fri 14/4/23								
96	Fabrication	106 days	Sat 15/4/23	Sat 29/7/23	995							
97	Testing	29 days	Sun 30/7/23	Sun 27/8/23	996							
98	Installation	7 days	Wed 1/11/23	Tue 7/11/23	997,988,993							
99	Grouting to bearing bases and curing	15 days	Wed 8/11/23	Wed 22/11/23	998							
000		536 days	Wed 7/6/23	Sat 23/11/24	330							
001	Submission for approval	78 days	Wed 7/6/23	Wed 23/8/23								
	Fabrication	58 days	Wed 4/10/23	Thu 30/11/23	1001							
002		·	Tue 31/10/23	Thu 28/12/23	1002FS-31 days							
003	Post-tensioning and grouting	59 days			•							
004	Capping ends	3 days	Fri 29/12/23	Sun 31/12/23	1003							
005	Installation	10 days	Mon 15/1/24	Wed 24/1/24	1004,999							
006	Grouting to bearing tops and curing	15 days	Thu 25/1/24	Thu 8/2/24	1005							
07	Fabrication of permanent formwork	30 days	Fri 1/3/24	Sat 30/3/24								
80	Installation of permanent formwork (stage 1)	31 days	Sun 31/3/24	Tue 30/4/24	1007							
09	Casting of in-situ tie beams & slab (Stage 1)	15 days	Wed 1/5/24	Wed 15/5/24	1008							
10	Removal of Formwork (Stage 1)	7 days	Thu 16/5/24	Wed 22/5/24	1009							
)11	Edge beam painting suspended due to inclement weather	3 days	Wed 19/6/24	Fri 21/6/24	1010							
)12	Edge beam painting (Stage 1)	3 days	Sat 22/6/24	Mon 24/6/24	1011							
)13	Stage 2 TTA & Falsework	13 days	Fri 19/7/24	Wed 31/7/24	1012							
14	Installation of permanent formwork (stage 2)	21 days	Thu 1/8/24	Wed 21/8/24	1013							
15	Casting of in-situ tie beams & slab (Stage 2)	28 days	Thu 1/8/24	Wed 28/8/24	1013							
16	Removal of Formwork (Stage 2)	4 days	Thu 29/8/24	Sun 1/9/24	1015							
117	Edge beam painting (Stage 2)	3 days	Mon 23/9/24	Wed 25/9/24								
)18	Removal of Falsework and TTA	6 days	Wed 25/9/24	Mon 30/9/24								
	Planters design submission	64 days	Mon 7/10/24	Mon 9/12/24								
)19	·		Mon 19/5/25	Sat 26/7/25								
)20	Planters construction	69 days				45/0		20/0				
21	U-channels	14 days	Mon 15/9/25	Sun 28/9/25	4004	15/9			48/48			
22	movement joint	7 days	Mon 6/10/25	Sun 12/10/25	1021			6/10	12/10	40/46		
23	soft lanscape	7 days	Mon 13/10/25	Sun 19/10/25	1022				13/10			
24	Finsihing on Planters	14 days	Mon 20/10/25	Sun 2/11/25	1023					0 📩		
25	Paving	21 days	Mon 13/10/25	Sun 2/11/25	1022				13/10		2/11	
26	Railing Design	55 days	Mon 26/5/25	Sat 19/7/25								
27	Railing fabrication	28 days	Sun 20/7/25	Sat 16/8/25	1026							
28	Railing Installtion	14 days	Sun 17/8/25	Sat 30/8/25	1027							
)29	Paving (Section 1)	14 days	Mon 22/9/25	Sun 5/10/25		2	22/9	5/1	0			
	Section 3	168 days	Mon 30/6/25	Sun 14/12/25								

CEDD Contract No. ED/2020/02 China International Water & Electric Corp. Updated on 05 Sep 2025 Development of Anderson Road Quarry Site - Infrastructure, Greening and Landscape Works 3 Months Rolling Programme (September 2025 to November 2025) ID Task Name Duration Start Finish Predecessors September 2025 October 2025 November 2025 11/10 1/11 11/9 21/9 1/10 21/10 11/11 21/11 Mon 30/6/25 Sat 20/9/25 1031 Drainage work 1032 Underground drainage 7 days Mon 30/6/25 Sun 6/7/25 1033 Surface drainage 21 days Sun 31/8/25 Sat 20/9/25 20/9 1034 Thu 18/9/25 Sun 14/12/25 Cable Ducting 88 days 1035 Installation of drawpit cable duct and footing 7 days Thu 18/9/25 Wed 24/9/25 18/9 24/9 1036 Wiring and installation of lamp post 14 days Thu 25/9/25 Wed 8/10/25 1035 25/9 8/10 1037 Paving (Stage 1) 14 days Mon 6/10/25 Sun 19/10/25 1029 6/10 19/10 1/12 1038 Paving (Stage 2) 14 days Mon 1/12/25 Sun 14/12/25 1060 1039 42 days Sun 9/11/25 Sat 20/12/25 14 days Sun 9/11/25 Sat 22/11/25 1098 22/11 1040 Surface drain 1041 Planting Soil 14 days Sun 23/11/25 Sat 6/12/25 1040 23/11

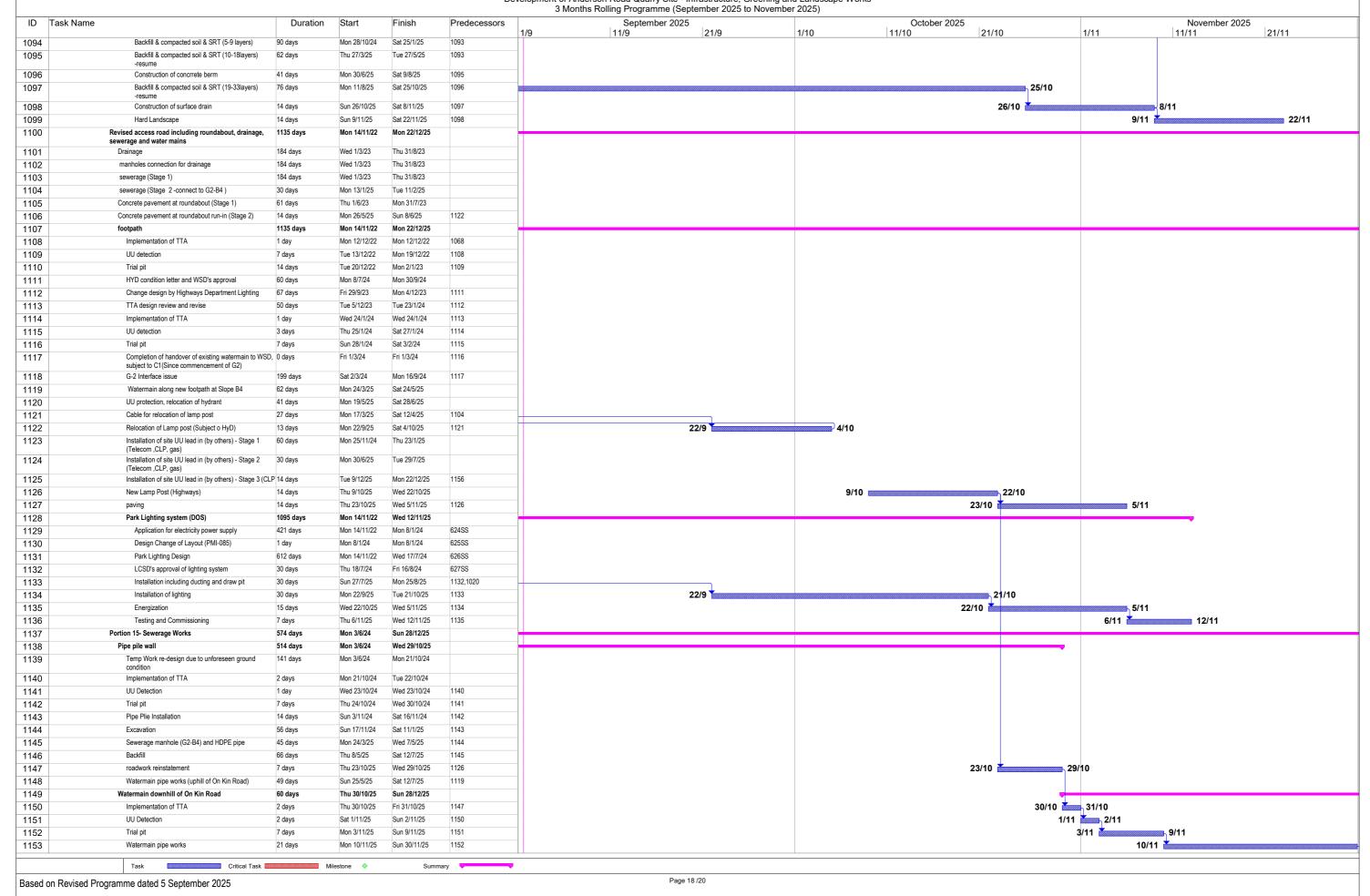


China International Water & Electric Corp.

CEDD Contract No. ED/2020/02

Updated on 05 Sep 2025

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



						3 Months Rolling Programme (September	er 2025 to November	2025)					
ID Task N	lame	Duration	Start	Finish	Predecessors	September 2025			October 2025	1		November 2025	
4454	WCD associate	14 40.00	Man 4/40/05	Cup 44/40/05	1153	1/9 11/9 21	/9	1/10	11/10	21/10	1/11	11/11	21/11
1154		14 days	Mon 1/12/25	Sun 14/12/25									1/12
1155		7 days	Mon 15/12/25	Sun 21/12/25	1154								
1156		7 days	Mon 22/12/25	Sun 28/12/25	1155	_							
1157		699 days	Fri 19/5/23	Wed 16/4/25									
1158	Contractor's design	76 days	Fri 19/5/23	Wed 2/8/23									
1159	Approval of WWO542	30 days	Thu 3/8/23	Fri 1/9/23	1158								
1160	Approval of Form WWO 046	21 days	Sat 2/9/23	Fri 22/9/23	1159								
1161	Underground water supply for irrigation	60 days	Sat 23/9/23	Tue 21/11/23									
1162	Irrigation system	45 days	Mon 3/3/25	Wed 16/4/25		1							
1163		1977 days?	Fri 30/7/21	Thu 25/2/27									
	Softworks in Section 7B of the Works												
1164		0 days	Sun 28/12/25	Sun 28/12/25	979								
1165		365 days	Sun 28/12/25	Thu 25/2/27	1164SS-1 day								
1166	Completion of Works in Section 7B	0 days	Thu 25/2/27	Thu 25/2/27	1165								
1167	Section of Works 8 - Portion 16	556 days	Thu 16/6/22	Sat 23/12/23									
1168	Portion 16	556 days	Thu 16/6/22	Sat 23/12/23									
1169	Site access date [321 days after starting date as per Contract]	0 days	Thu 16/6/22	Thu 16/6/22	151SS	-							
						_							
1170		24 days	Thu 16/6/22	Sat 9/7/22	1169								
1171		350 days	Thu 16/6/22	Wed 31/5/23	1170								
1172		4 days	Thu 1/6/23	Sun 4/6/23	1171								
1173	Removal of existing rock slope	45 days	Mon 5/6/23	Wed 19/7/23	1172								
1174	Construction of fill slope A7	90 days	Thu 20/7/23	Tue 17/10/23	1173								
1175	Construction of fill slope A8	80 days	Sun 30/7/23	Tue 17/10/23	1174FF	1							
1176	Construction of slope surface drainage system	45 days	Wed 18/10/23	Fri 1/12/23	1174	1							
1177	Hydroseeding	22 days	Sat 2/12/23	Sat 23/12/23	1176								
1178	Chain link fence	30 days	Fri 24/11/23	Sat 23/12/23	1176FF	-							
1179	Thrust boring of additional pipe from S201D to MHT1	78 days	Mon 2/10/23	Mon 18/12/23		-							
1180	Section of Works 8A - Establishment Works for all Landscape	-	Fri 27/9/24	Fri 26/9/25		-							
1100	Softworks in Section 8 of the Works	oo uujo		20,0,20									
1181	Commencement of Establishment Work for Section 8	0 days	Fri 27/9/24	Fri 27/9/24	1182SS								
1182	Establishment Work Duration for Section 8	365 days	Fri 27/9/24	Fri 26/9/25	1177		26/9						
1183	Completion of Works in Section 8	0 days	Fri 26/9/25	Fri 26/9/25	1182FF	-	26/9						
1184	Section of Works 9 - Portion 17	1494 days	Fri 30/7/21	Sun 31/8/25		- 							
1185	Portion 17	1494 days	Fri 30/7/21	Sun 31/8/25		-							
1186	Provision of site access [212 days after starting date as per		Sun 27/2/22	Sun 27/2/22	162SS								
	Contract]												
1187	Deferred possession	30 days	Sun 27/2/22	Mon 28/3/22	1186								
1188	Slope inspection & assessment work & Tree Survey	23 days	Tue 29/3/22	Wed 20/4/22	1187								
1189	Mobilization, access & Site Clearance	15 days	Thu 21/4/22	Thu 5/5/22	1188								
1190	Time Risk Allowance	14 days	Fri 6/5/22	Thu 19/5/22	1188,1189								
1191	Access blocked by C1 at hiking trail	181 days	Mon 3/7/23	Sat 30/12/23									
1192	Demolition and removal of disused water pipe and sprinkler	50 days	Fri 20/5/22	Fri 8/7/22	1190	-							
	system												
1193		777 days	Sat 14/1/23	Fri 28/2/25	1192								
1194		776 days	Sun 15/1/23	Fri 28/2/25									
1195		60 days	Tue 31/12/24	Fri 28/2/25									
1196	Reinstatement of eroded soil berm due to inclement weather	128 days	Thu 7/9/23	Fri 12/1/24									
1197	(PMI 117) Slope Works at Feature No. 11NE-D/C948 (310m)	352 days	Sun 31/12/23	Mon 16/12/24		-							
		14 days	Thu 25/7/24	Wed 7/8/24	1250	-							
1198				Mon 16/12/24	1198	-							
1199		7 days	Tue 10/12/24			-							
1200		352 days	Sun 31/12/23	Mon 16/12/24	1191								
1201		1154 days	Fri 30/7/21	Wed 25/9/24									
1202		14 days	Fri 30/7/21	Thu 12/8/21									
1203		7 days	Fri 13/8/21	Thu 19/8/21	1202								
1204	Construction of wire mesh	30 days	Tue 27/8/24	Wed 25/9/24	1200,1203								
1205	Slope Works at Feature No. 11NE-D/C981 (390m)	1170 days	Fri 13/8/21	Fri 25/10/24									
1206	Construction of concrete berm	14 days	Fri 13/8/21	Thu 26/8/21	1202	1							
1207	Installation of hand railings	7 days	Fri 27/8/21	Thu 2/9/21	1206	1							
1208	Construction of wire mesh	30 days	Thu 26/9/24	Fri 25/10/24	1204	-							
1209		1186 days	Fri 27/8/21	Sun 24/11/24		-							
1210		30 days	Sat 26/10/24	Sun 24/11/24	1208	-							
1211		14 days	Fri 27/8/21	Thu 9/9/21	1206	-							
1211		7 days	Fri 10/9/21	Thu 16/9/21	1211	-							
1212	Construction of concrete maintenance staircase with hand	•	Mon 19/2/24	Fri 22/3/24	.211	-							
1213	railings	oo aayo	13/2/24	. 11 22/0/27									
				•		1					1		
	Task Critical Task	M	lilestone 🔷	Summ	ary								

							0 0	e (September 2025 to No	,					
D Task Na	ame	Duration	Start	Finish	Predecessors		September	2025		October 2			November 20	
14	Slope Works at Feature No. 11NE-B/C902 (360m)	326 days	Wed 24/1/24	Sat 14/12/24		1/9	11/9	21/9	1/10	11/10	21/10	1/11	11/11	21/11
15		20 days	Mon 25/11/24	Sat 14/12/24										
6		14 days	Wed 24/1/24	Tue 6/2/24										
		-	Wed 24/1/24 Wed 7/2/24	Tue 13/2/24		_								
17		7 days				_								
18		14 days	Thu 28/3/24	Wed 10/4/24										
19		14 days	Wed 16/10/24	Tue 29/10/24										
20		14 days	Wed 16/10/24	Tue 29/10/24										
21		183 days	Wed 30/10/24	Wed 30/4/25										
22	Reinstatement of sprayed concrete	14 days	Wed 30/10/24	Tue 12/11/24	1220									
23	Reinstatement of damaged granite stone planter wall and granoite stone facing		Mon 17/2/25	Wed 30/4/25										
24	U-channel	108 days	Mon 13/1/25	Wed 30/4/25										
25	Slope Works at Feature No. 11NE-B/C1014 (90m)	14 days	Wed 13/11/24	Tue 26/11/24										
26	Remove water pump & electric box	14 days	Wed 13/11/24	Tue 26/11/24	1222									
.7	Slope Works at Feature No. 11NE-B/C901 (290m)	518 days	Fri 2/6/23	Thu 31/10/24										
28	Installation of non-biodegradable erosion control mat	90 days	Fri 2/6/23	Wed 30/8/23										
29	Hydroseeding	30 days	Wed 2/10/24	Thu 31/10/24										
30	Installation of hand railings	36 days	Thu 7/9/23	Thu 12/10/23										
1	Repainting of handrailing	20 days	Sun 22/10/23	Fri 10/11/23										
32	Filling of void with concrete	37 days	Tue 2/1/24	Wed 7/2/24										
33	Reinstatement of concrete berm	14 days	Thu 6/6/24	Wed 19/6/24	1232									
34	Construction of lockable gate	7 days	Thu 20/6/24	Wed 26/6/24	1233									
55	Slope Works at Feature No. 11NE-B/C900 (335m)	892 days	Sat 9/7/22	Mon 16/12/24										
36		78 days	Sun 12/2/23	Sun 30/4/23										
37		30 days	Fri 1/11/24	Sat 30/11/24		-								
38		60 days	Sat 9/7/22	Tue 6/9/22		-								
39	· · · · · · · · · · · · · · · · · · ·	7 days	Thu 20/6/24	Wed 26/6/24	1233	_								
		30 days	Wed 10/5/23	Thu 8/6/23	1200									
40			Mon 2/12/24	Mon 16/12/24		_								
41		15 days												
42		388 days	Mon 19/6/23	Wed 10/7/24	4000									
43		7 days	Thu 27/6/24	Wed 3/7/24	1239									
44		7 days	Thu 4/7/24	Wed 10/7/24	1243									
45		60 days	Mon 19/6/23	Thu 17/8/23										
46		30 days	Thu 6/7/23	Fri 4/8/23										
47	Slope Works at Feature No. 11NE-D/C872 (250m)	892 days	Sat 9/7/22	Mon 16/12/24										
48	Installation of hand railings	60 days	Sat 9/7/22	Tue 6/9/22										
19	Repainting of handrailing	30 days	Sun 2/4/23	Mon 1/5/23										
50	Reinstatement of concrete berm	7 days	Tue 10/12/24	Mon 16/12/24	1251									
51	Filling of void with concrete	7 days	Tue 3/12/24	Mon 9/12/24	1244									
2	Slope Works at Feature No. 11NE-C/900 (Stage 2)	45 days	Thu 2/1/25	Sat 15/2/25										
53	Installation of non-biodegradable erosion control mat	45 days	Thu 2/1/25	Sat 15/2/25										
54	Slope Works at Feature No. 11NE-B/C903	30 days	Mon 2/12/24	Tue 31/12/24		1								
55		30 days	Mon 2/12/24	Tue 31/12/24		-								
56	<u> </u>	29 days	Sun 3/8/25	Sun 31/8/25		31/8								
57	Section of Works 9A - Establishment Works for all Landscape		Fri 28/2/25	Mon 9/3/26										
•	Softworks in Section 9 of the Works													
8	Commencement of Establishment Work for Section 9	0 days	Fri 28/2/25	Fri 28/2/25										
9	Establishment Work Duration for Section 9	365 days	Fri 28/2/25	Mon 9/3/26	1258									
0	Completion of Works in Section 9	0 days	Mon 9/3/26	Mon 9/3/26	1259									
1	Section of Works 10 - All Tree Protection and Preservation Works	1202 days?	Fri 30/7/21	Tue 12/11/24										
52	Commencement of All Tree Protection and Preservation Work	0 days	Fri 30/7/21	Fri 30/7/21		1								
63	All Tree Protection and Preservation Work	1202 days	Fri 30/7/21	Tue 12/11/24		-								
64		0 days	Tue 12/11/24	Tue 12/11/24	1263	-						1		



Appendix D

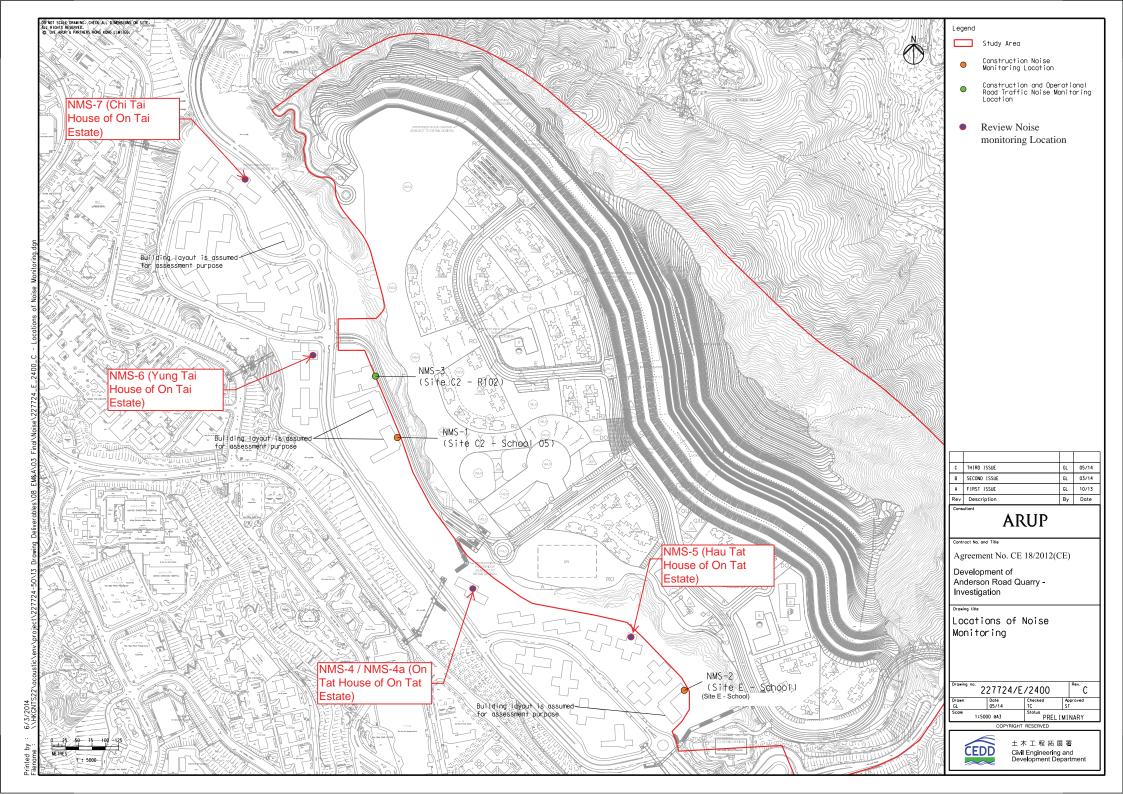
Monitoring Locations for Impact Monitoring

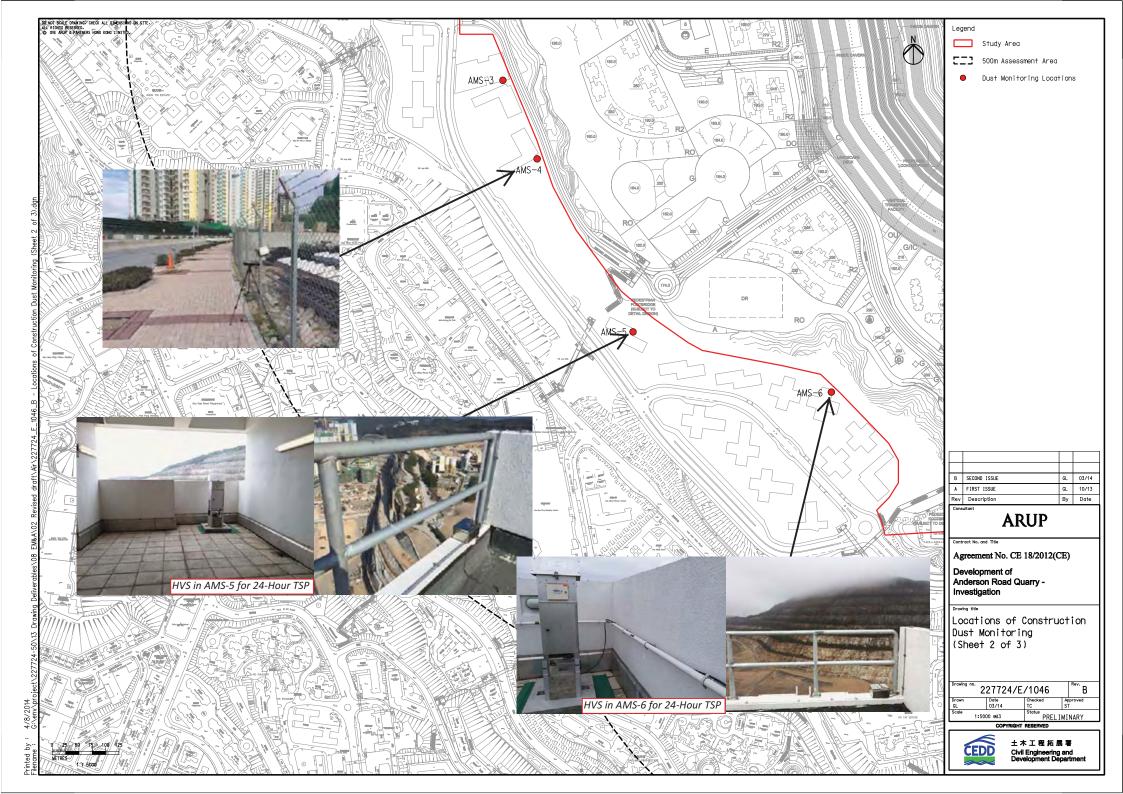
CEDD Service Contract No. EDO 12/2023 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (August 2025)

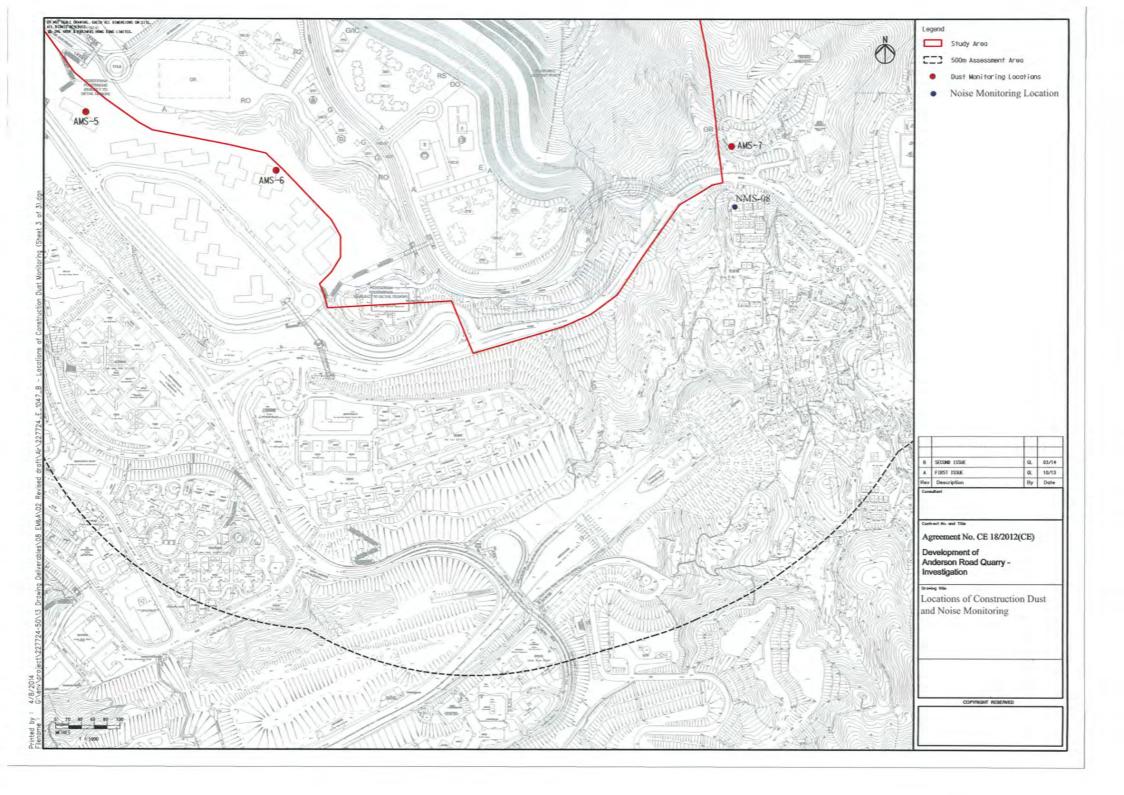


Monitoring Locations for Contract 1 (NE/2016/01)





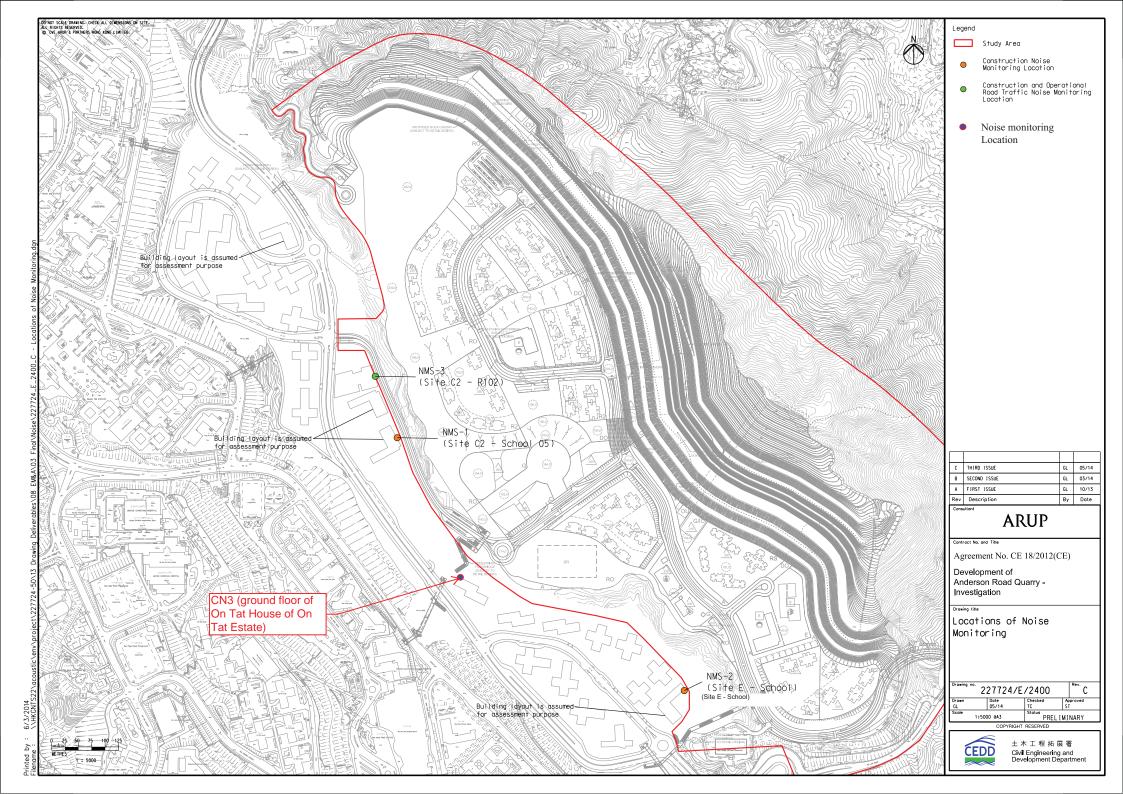


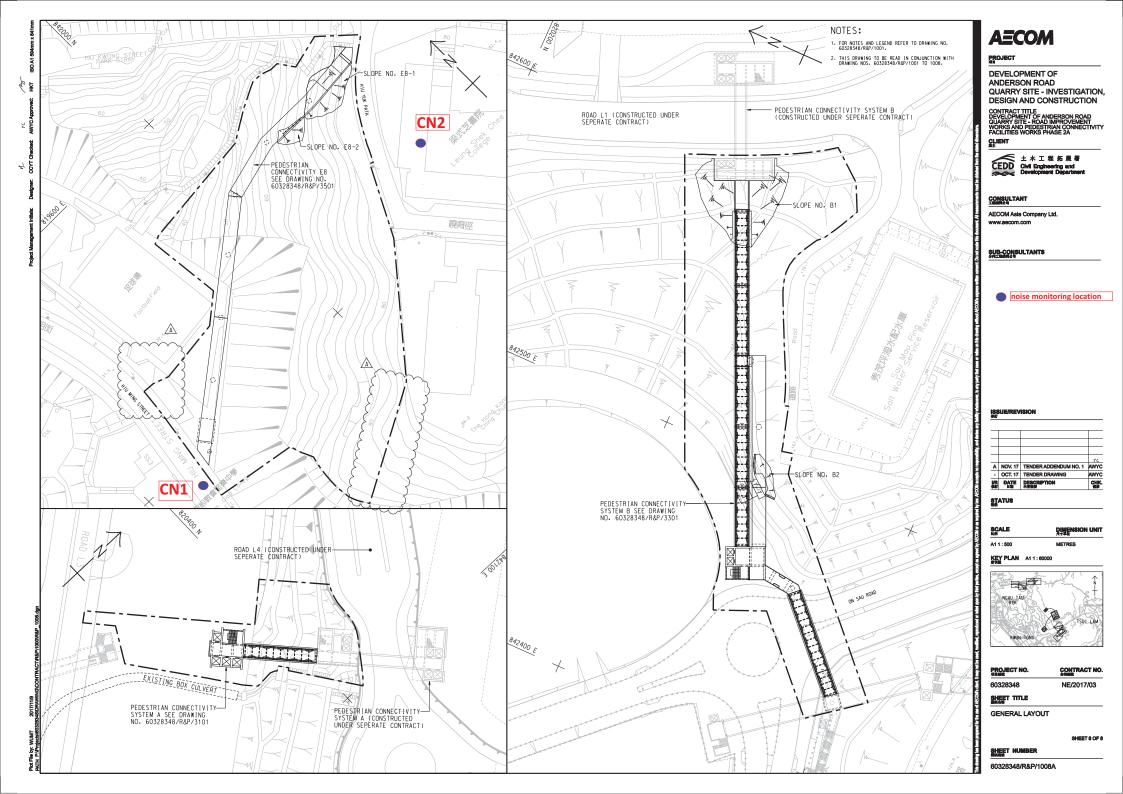


CEDD Service Contract No. EDO 12/2023 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (August 2025)



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:

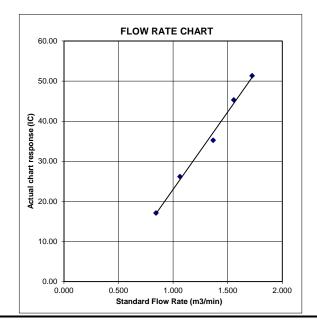
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

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:

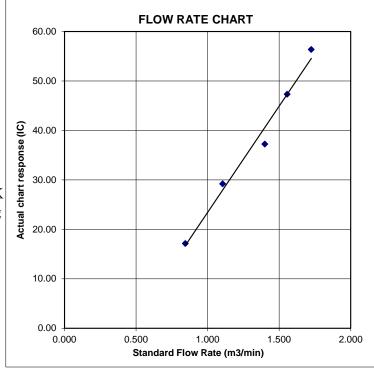
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

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:

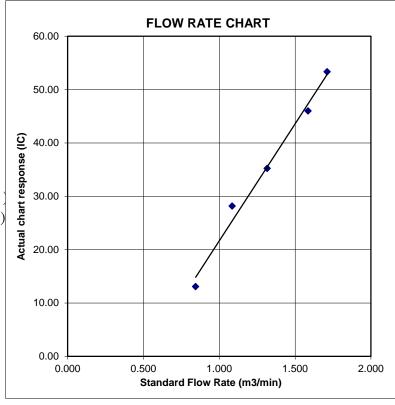
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

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:

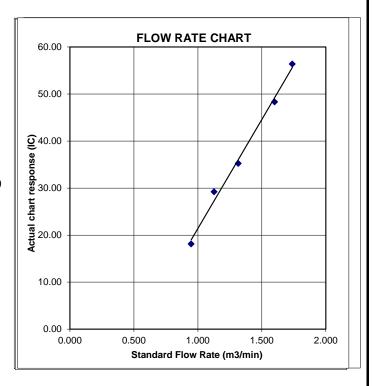
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

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.
HK2437857-0	001 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)

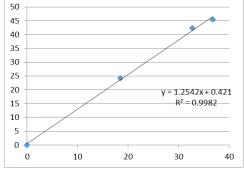
705 (CPM)

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)

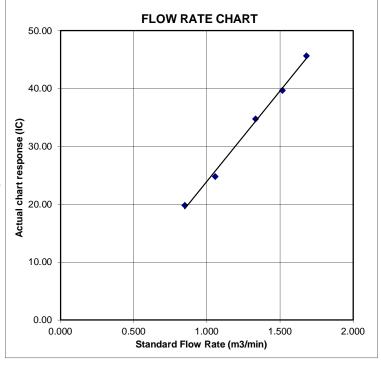
m = sampler slope

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 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
20.0	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)

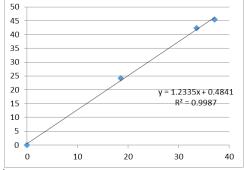
612 (CPM)

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.	(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)

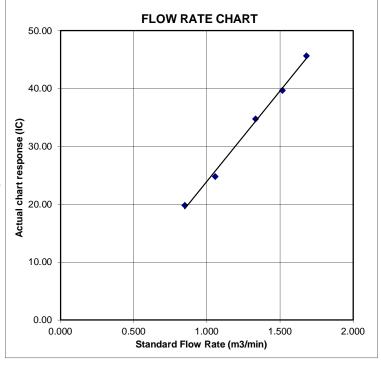
m = sampler slope

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				
40.0	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 : 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)

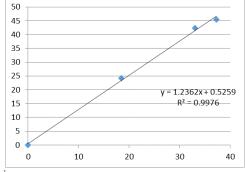
665 (CPM)

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.	(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)

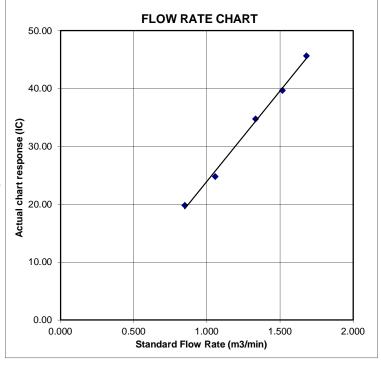
m = sampler slope

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

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)

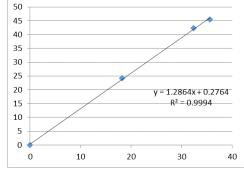
714 (CPM)

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)

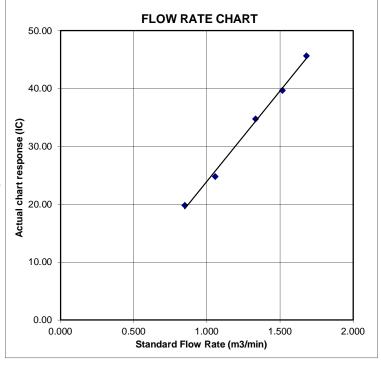
m = sampler slope

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 ± 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

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

Results:

Acoustical signal test

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

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

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

Tolerance: ± 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	luency	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

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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



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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)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	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)			Appl	lied 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

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	Applied value		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
			3.22		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

Setting of Unit-under-test (UUT)				Appl	Applied value		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



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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

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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

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	BA 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	JDA	JD A CDY	Fast	0.4	94 1000	94.0	Ref
	dBA	SPL	Slow	94		94.0	±0.3

Certificate No.: APJ24-111-CC001



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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	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
		BA SPL	Fast	94	250	85.4	-8.6 ±1.4
30-130	dBA				500	90.8	-3.2 ±1.4
			15, - 1		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
					63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
					250	94.1	-0.0±1.4
30-130	dBC	SPL	Fast	94	500	94.1	-0.0 ±1.4
					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

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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

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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	0.4.1	± 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
	*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 c	alibration, the	instrument was	s found	to be:
--------------------	-----------------	----------------	---------	--------

☑ Within

Outside

the allowable tolerance.

The test equipments 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:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 28 April 2025

Certificate No.: APJ25-008-CC005

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 ° C
1006 hP 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

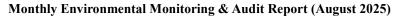


Event / Action Plan for construction dust

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

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

E	Action			
Event	ET	IEC	ER	Contractor
Action Level Exceedance	Notify IEC, ER and Contractor; Carry out investigation;	1. Review the analysed results submitted by the ET;	1. Confirm receipt of notification of failure in writing;	1. Submit noise mitigation proposals to IEC and ER; and
	 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness. 	Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures.	Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented.	2. Implement noise mitigation proposals.
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	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 (August 2025)

Impact Monitoring Schedule for the Reporting Period

<u></u>	<u> </u>	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	√	✓	
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	✓	✓	
Tue	26-Aug-25			
Wed	27-Aug-25			✓
Thu	28-Aug-25			
Fri	29-Aug-25			
Sat	30-Aug-25		✓	
Sun	31-Aug-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 (August 2025)

Impact Monitoring Schedule for next Reporting Period

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

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

24 ha TO	24-HOUR ISP MONITORING RESULT DATABASE 4-hour TSP Monitoring Data for AMS1a														
24-nour 18	r Monitorir	ig Data fo	r AIVISIA					1	,		<u> </u>	<u> </u>		1	Т
	SAMPLE	ELA	APSED TIN	Æ		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	NUMBER	2					TEMP	PRESS	FLOW RATE	VOLUME	(g)		COLLECTED	TSP ₃	
		INITIAL	FINAL	(min)		MAX		(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	(μg/m³)
4-Aug-25				1440.00	41	41	41	28.8	1003.6	1.45	2094	2.7733	2.8054	0.0321	15
9-Aug-25				1440.00	41	41	41	30.1	1007.8	1.45	2094	2.7839	2.8432	0.0593	28
15-Aug-25			29447.96		41	41	41	27.5	1008.9	1.46	2101	2.6908	2.7171	0.0263	13
21-Aug-25			29471.96		41	41	41	29.6	1011.4	1.46	2098	2.7277	2.7687	0.041	20
27-Aug-25	21477	29471.96	29495.96	1440.00	41	41	41	32.3	1008.3	1.45	2089	2.7465	2.7781	0.0316	15
24-hour TSP Monitoring Data for AMS-5															
	SAMPLE	FΙΔ	APSED TIN	ЛF		CHAR		AVG	AVG AIR	STANDARD	AIR	FILTER V		DUST WEIGHT	24-hr
DATE	MILLADED					EADIN		TEMP	PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
		INITIAL	FINAL	(min)		MAX		(°C)	(hPa)	(m³/min)	(std m³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Aug-25	21587	17421.09		1440.00	39	39	39.0	28.8	1003.6	1.35	1948	2.6710	2.7370	0.0660	34
9-Aug-25	21779	17445.09		1440.00	39	39	39.0	30.1	1007.8	1.35	1948	2.5920	2.6508	0.0588	30
15-Aug-25	21782			1440.00	39	39	39.0	32.8	1008.9	1.35	1943	2.5812	2.6257	0.0445	23
21-Aug-25	21788			1440.00	39	39	39.0	33.3	1011.4	1.35	1943	2.5830	2.6097	0.0267	14
27-Aug-25	21822	17517.09	17541.09	1440.00	39	39	39.0	32.7	1008.3	1.35	1942	2.6192	2.6507	0.0315	16
24-hour TS	P Monitorir	g Data for	r AMS-6												
	CAMBLE	ET A	APSED TIN	Æ	(CHAR	Γ	AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	SAMPLE NUMBER				R	EADIN	NG TEMP		PRESS	FLOW RATE	VOLUME	(g		COLLECTED	TSP
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Aug-25				1440.00	42	42	42.0	28.8	1003.6	1.45	2093	2.6871	2.7512	0.0641	31
9-Aug-25			22536.10		42	42	42.0	30.1	1007.8	1.45	2093	2.5771	2.6825	0.1054	50
15-Aug-25	21781	22536.10	22560.10	1440.00	42	42	42.0	32.8	1008.9	1.45	2088	2.5929	2.6483	0.0554	27
21-Aug-25	21789	22560.10	22584.10	1440.00	42	42	42.0	33.3	1011.4	1.45	2088	2.5709	2.6120	0.0411	20
27-Aug-25	21823	22584.10	22608.10	1440.00	42	42	42.0	33.3	1008.3	1.45	2086	2.6149	2.6665	0.0516	25
24-hour TS	P Monitorir	g Data for	r AMS-7				-								•
				Œ	(CHAR	Γ	AVG	AVG AIR	STANDARD	AIR	FILTER V	VEIGHT	DUST WEIGHT	24-hr
DATE	SAMPLE NUMBER			PLE ELAPSED TIME READING TEMP PR		PRESS	FLOW RATE	VOLUME	(g)	COLLECTED	TSP			
						MAX		$(^{\circ}\mathbb{C})$	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
4-Aug-29	21697		17315.32		41	41	41.0	28.8	1003.6	1.41	2034	2.7810	2.8652	0.0842	41
9-Aug-25	21658		17339.32		41	41	41.0	30.1	1007.8	1.41	2034	2.7556	2.8096	0.0540	27
15-Aug-25	21780	17339.32	17363.32	1440.00	41	41	41.0	27.5	1008.9	1.42	2040	2.5814	2.6521	0.0707	35
21-Aug-25	21476	17363.32	17387.32	1440.00	41	41	41.0	29.6	1011.4	1.41	2037	2.7295	2.7566	0.0271	13
27-Aug-25	21830	17387.32	17411.32	1440.00	41	41	41.0	33.3	1008.3	1.41	2028	2.6269	2.6750	0.0481	24



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Measu	Noise Measurement Results (dB) of NMS1																				
	Start	1st Leg (5min)		(5min) 2nd Leq (5min)			3rd	3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Limit	
	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)
1-Aug-25	9:15	66.5	70.2	63.0	65.9	69.8	62.9	69.5	73.1	64.2	68.6	72.1	64.4	68.5	71.9	64.5	70.1	74.5	63.9	68	70
7-Aug-25	9:00	68.2	71.6	60.8	71.2	74.8	54.5	69.0	73.5	60.5	68.4	71.9	61.5	68.0	71.0	60.4	71.1	74.6	61.7	70	70
13-Aug-25	9:00	69.5	74.2	58.6	69.7	73.4	58.1	68.0	70.6	58.2	69.5	72.8	63.9	68.6	71.1	59.5	68.7	73.1	56.7	69	70
19-Aug-25	9:00	66.3	70.3	58.6	71.5	77.4	63.1	69.5	76.5	61.0	70.3	75.0	62.5	70.8	71.3	59.5	68.7	73.3	58.6	70	70
25-Aug-25	9:00	67.6	70.4	59.3	64.0	66.8	57.7	69.4	73.0	58.6	69.1	71.5	59.8	69.1	70.0	59.2	68.0	69.5	60.5	68	70

Noise Meas	uremei	nt Resul	lts (dB)	of NMS2																	
	C44	19	st Leq (5	min)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (51	min)	Leq30	Limit
Date	Start 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)
1-Aug-25	10:10	62.9	65.0	60.5	62.1	64.5	60.4	63.8	66.5	61.0	62.1	64.1	60.2	61.9	64.5	60.5	63.1	65.8	60.4	63	70
7-Aug-25	13:10	66.5	70.5	59.2	65.4	69.3	57.4	64.7	67.8	57.2	65.9	69.4	57.7	67.7	71.8	58.2	68.7	71.9	58.8	67	70
13-Aug-25	13:10	63.3	66.4	60.3	64.7	63.6	61.0	62.3	63.8	60.0	69.0	68.5	62.5	63.9	67.5	61.5	62.6	66.0	60.5	65	70
19-Aug-25	13:10	64.7	67.5	57.0	66.5	70.5	59.2	65.4	69.3	57.4	64.7	67.8	57.2	65.9	69.4	57.7	67.7	71.8	58.2	66	70
25-Aug-25	13:15	64.7	67.5	57.0	63.0	63.6	60.9	61.3	62.7	58.9	61.8	63.3	59.5	61.1	62.4	59.5	61.5	63.0	59.9	62	70

Noise Meas	uremei	ıt Resul	lts (dB)	of NM	S3																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	ub(A)	dB(A)
1-Aug-25	10:20	56.1	58.6	52.7	55.0	57.3	51.8	55.8	58.9	50.8	55.7	57.6	53.7	57.1	60.1	53.1	58.3	62.7	53.7	56	75
7-Aug-25	11:20	59.6	61.1	54.5	60.5	62.9	55.3	59.9	61.7	54.9	60.8	62.6	56.0	60.5	62.0	55.4	61.2	63.9	55.5	60	75
13-Aug-25	10:20	58.9	62.3	54.1	57.5	60.4	54.1	57.5	59.7	54.4	59.5	61.8	56.2	55.2	56.9	52.8	55.9	58.9	52.5	58	75
19-Aug-25	13:00	63.5	66.7	56.6	59.7	61.1	56.3	61.2	63.7	56.1	60.3	62.5	57.8	62.6	65.3	57.2	63.5	66.4	57.5	62	75
25-Aug-25	13:05	59.2	63.1	53.2	57.8	60.2	54.7	56.7	60.8	53.9	57.6	61.8	52.3	56.1	59.9	53.7	57.0	60.5	53.4	58	75



Noise Mea	sureme	ent Resu	ults (dB	of NM	S4a																
	Stant	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (5	min)	4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (51	nin)	Leq30m	Limit
Date	Start Time	ΔΩ.	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	in,	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
1-Aug-25	13:12	63.5	65.4	55.3	62.7	64.9	56.0	63.6	64.8	56.5	61.9	65.7	55.7	62.1	64.1	54.9	64.0	66.5	55.1	63	75
7-Aug-25	11:00	54.6	55.9	53.1	54.6	55.9	53.1	55.2	56.1	53.1	55.2	56.4	53.2	55.5	57.3	53.6	54.6	55.9	53.1	55	75
13-Aug-25	11:00	66.7	69.0	65.5	64.4	67.0	63.5	63.8	65.5	62.5	66.6	68.0	63.5	65.1	67.5	62.0	64.9	66.5	64.0	65	75
19-Aug-25	11:00	63.7	62.9	57.2	68.6	72.8	57.1	57.6	59.9	53.6	53.6	59.5	55.9	55.2	56.4	53.2	61.5	65.6	52.7	63	75
25-Aug-25	10:15	64.3	65.6	62.7	64.7	66.0	63.1	66.1	67.6	63.8	65.8	67.1	64.5	65.6	67.3	63.5	64.5	65.7	63.2	65	75

Noise Meast	urement	t Result	ts (dB)	of NMS	5																
	C4 a su4	1st	Leq (51	min)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (51	min)	I 20	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,		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)
1-Aug-25	11:08	64.3	65.7	62.0	63.9	65.1	61.8	64.6	66.4	62.2	64.9	67.1	62.9	62.5	65.9	61.5	65.1	67.8	62.0	64	75
7-Aug-25	11:30	62.1	65.9	58.8	64.3	67.6	59.4	64.9	68.4	59.9	61.1	62.8	58.9	61.3	63.2	59.3	63.9	67.8	59.2	63	75
13-Aug-25	11:30	63.1	64.6	60.2	63.1	65.5	60.1	63.5	66.3	59.1	62.8	65.4	59.6	63.0	65.4	59.9	62.8	65.3	59.7	63	75
19-Aug-25	11:30	66.2	69.4	59.3	64.0	66.8	57.7	69.4	73.0	58.6	69.1	71.5	59.8	69.1	70.0	59.2	68.0	69.5	60.5	68	75
25-Aug-25	10:55	66.0	66.2	64.0	65.9	66.9	64.9	66.5	67.5	64.9	66.2	66.9	65.1	66.9	67.1	65.1	60.1	62.1	58.3	66	75

Noise Meas	uremei	ıt Resu	lts (dB)	of NM	S6																
	Start	1st	Leq (5r	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (51	nin)	I ag20min	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	ub(A)	dB(A)
1-Aug-25	9:40	65.3	67.9	61.5	67.8	70.0	63.1	67.4	69.3	65.0	67.5	69.1	64.1	65.2	67.4	62.4	66.3	68.5	62.3	67	75
7-Aug-25	10:22	68.5	70.5	60.2	67.6	70.1	62.2	67.1	71.0	60.9	69.4	72.1	62.9	67.8	70.0	64.2	67.1	69.9	60.8	68	75
13-Aug-25	9:40	64.2	66.4	60.5	62.5	64.7	59.7	66.2	67.6	61.0	67.9	71.5	60.7	66.2	67.1	59.1	62.3	64.2	58.5	65	75
19-Aug-25	10:30	63.5	66.7	60.2	64.2	67.5	61.8	64.9	67.8	62.0	62.8	66.9	60.7	63.5	67.0	61.3	62.6	65.8	61.5	64	75
25-Aug-25	10:35	67.2	69.2	63.5	66.8	67.4	63.9	68.3	69.9	64.7	68.4	69.8	62.3	69.3	70.3	63.8	68.9	70.0	63.0	68	75



Noise Meas	uremer	ıt Resul	ts (dB)	of NMS	57																
	Start	1st	Leq (5r	nin)	2nd	Leq (51	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (5r	nin)	Lag20min	Limit
Date	Time	L ea	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)
1-Aug-25	8:50	65.3	67.9	59.5	63.2	66.4	59.5	64.4	67.8	59.9	64.3	66.3	60.0	64.5	65.0	59.6	65.2	67.8	60.5	65	75
7-Aug-25	9:40	65.9	70.0	64.2	67.1	70.5	56.4	64.8	69.3	63.9	63.2	68.1	62.3	64.5	68.9	62.1	64.3	69.5	63.2	65	75
13-Aug-25	8:50	63.7	67.5	57.5	64.2	68.0	55.5	65.6	69.0	59.5	63.1	65.5	57.4	60.3	63.5	55.5	59.7	62.0	56.0	63	75
19-Aug-25	9:45	61.7	63.4	59.2	61.2	63.3	58.4	62.3	63.8	59.6	62.6	65.3	58.2	61.9	64.1	59.1	60.6	62.2	56.7	62	75
25-Aug-25	9:50	62.8	63.9	59.7	62.5	65.2	58.5	66.9	66.4	59.8	64.7	66.3	60.9	65.1	67.1	60.7	66.4	68.7	61.0	65	75

Noise Measu	rement	Result	s (dB) o	of NMS	8																
	644	1st	Leq (5r	nin)	2nd	Leq (51	min)	3rd	Leq (51	nin)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	min)	I 20	Limit
Date	Start Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)	Level dB(A)
1-Aug-25	11:15	59.9	60.9	58.5	59.9	60.9	58.3	59.8	60.5	58.9	60.6	61.4	59.7	60.1	61.3	58.9	65.4	66.9	59.6	62	75
7-Aug-25	13:15	59.1	62.5	53.0	59.8	62.4	54.5	60.1	63.0	54.1	58.8	62.1	52.6	59.3	62.7	52.9	57.5	61.1	52.0	59	75
13-Aug-25	13:15	60.4	63.5	56.4	61.8	63.7	55.0	57.3	55.8	51.3	58.9	57.1	50.1	60.1	58.3	52.1	62.7	62.1	53.7	61	75
19-Aug-25	14:15	63.6	65.2	55.5	62.4	65.9	54.2	62.8	65.6	54.0	64.7	66.7	55.9	63.5	66.0	55.1	62.0	65.3	54.6	63	75
25-Aug-25	14:20	59.6	62.7	53.2	60.2	63.4	57.0	61.3	64.4	56.8	60.1	63.8	53.9	61.8	64.6	54.7	60.9	63.6	54.1	61	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 (August 2025)



NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measu	ıremen	t Resul	ts (dB)	of CN3																	
	Storet	1st	Leq (5r	nin)	2nd	Leq (51	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)	ub(A)	dB(A)
1-Aug-25	13:50	61.3	64.2	56.0	60.5	62.9	56.2	63.5	67.3	54.9	60.8	64.0	52.4	62.9	67.0	54.1	61.5	64.9	54.0	62	75
7-Aug-25	9:45	59.4	61.5	56.2	56.7	58.4	54.8	59.1	61.4	55.9	57.1	59.2	55.0	57.4	59.7	54.5	59.1	61.7	54.9	58	75
13-Aug-25	9:45	62.1	63.6	59.8	62.2	64.0	59.8	62.5	64.4	59.5	67.9	70.1	64.0	62.0	64.1	57.6	63.2	66.3	58.2	64	75
19-Aug-25	9:46	64.6	66.5	61.5	65.5	67.8	61.2	67.1	68.1	63.3	64.9	66.2	63.1	64.3	65.9	62.4	67.6	68.8	62.9	66	75
25-Aug-25	9:40	58.3	60.8	55.2	58.5	61.3	55.8	58.5	60.7	55.6	59.1	61.4	55.9	58.6	61.0	55.8	59.6	62.8	55.2	59	75

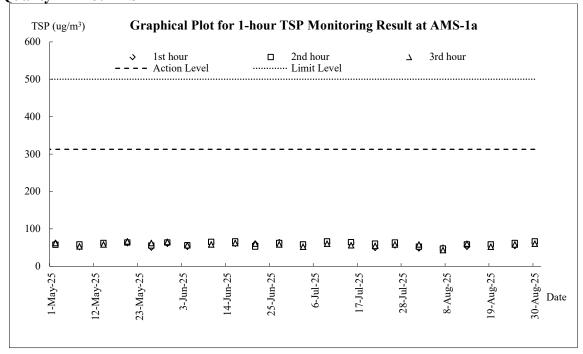


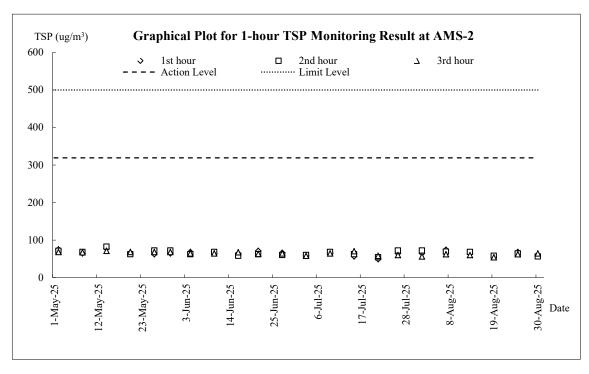
Appendix I

Graphical Plots for Monitoring Result

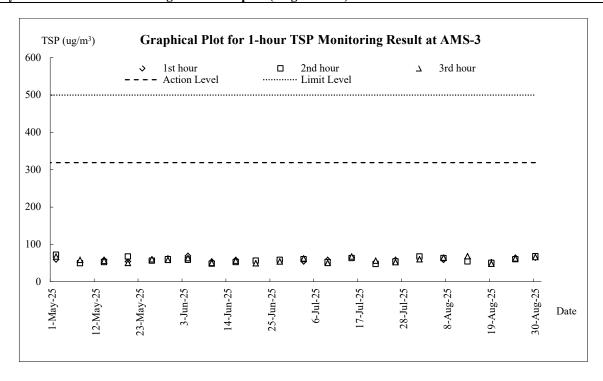


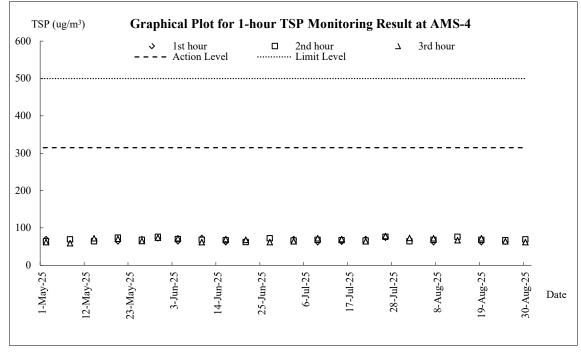
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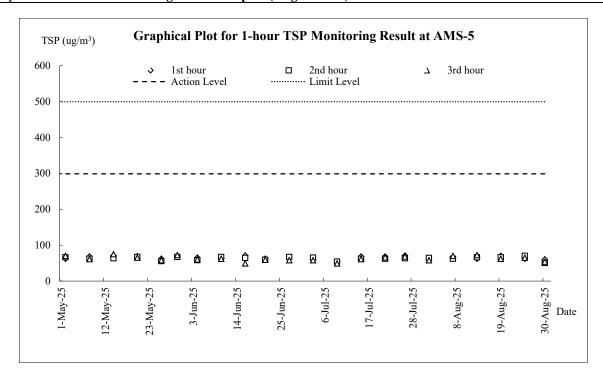


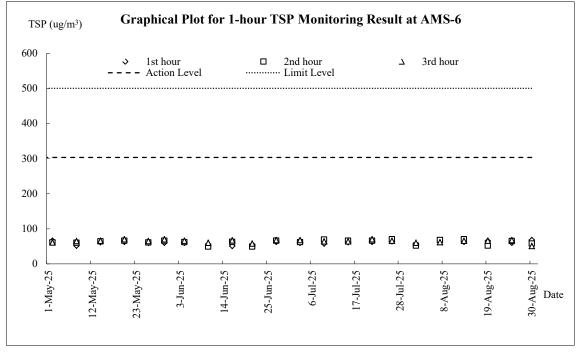




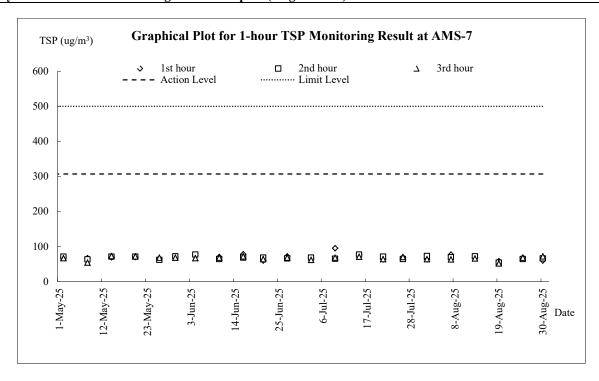






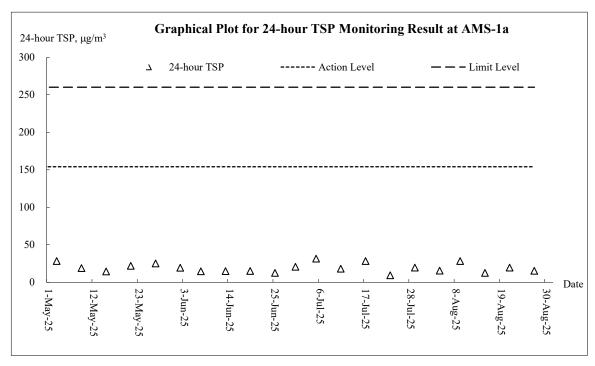


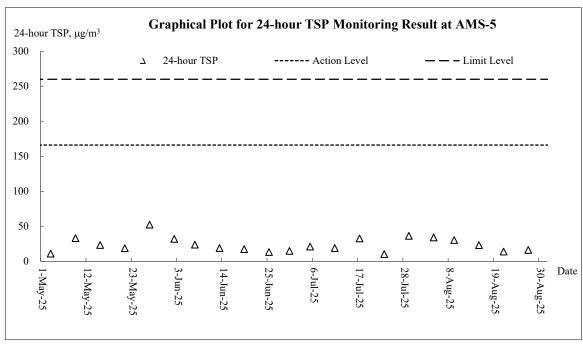






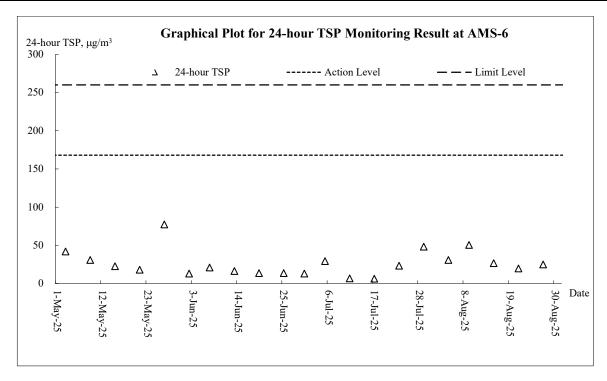
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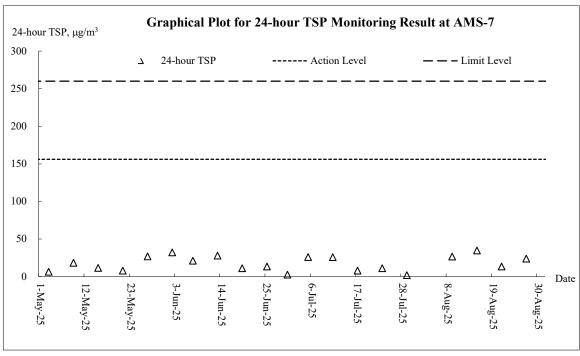




Environmental Team for Development of Anderson Road Quarry Site - Site Formation and Associated Infrastructure Works

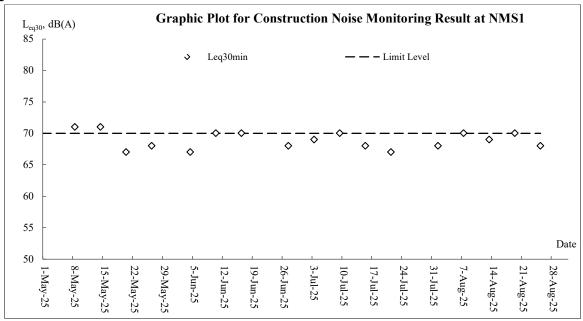


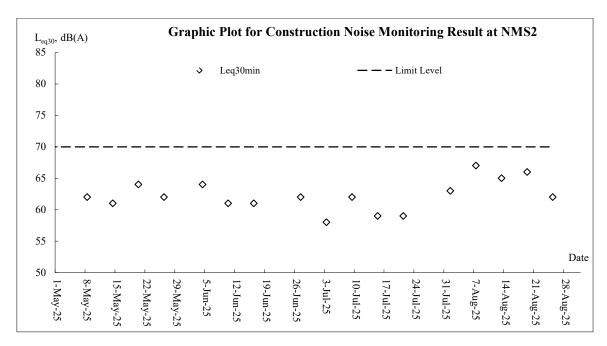




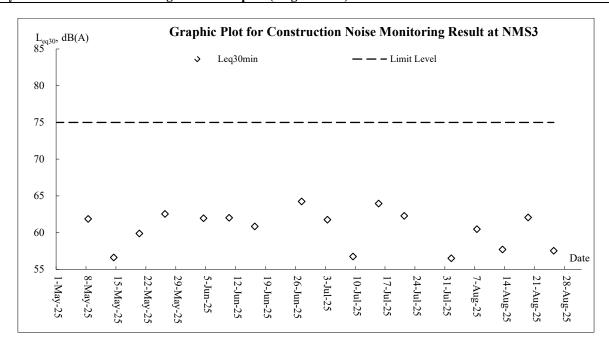


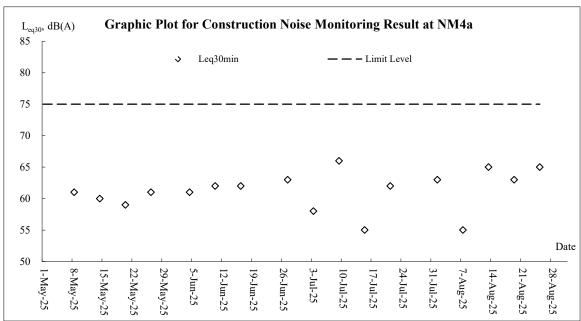
Noise



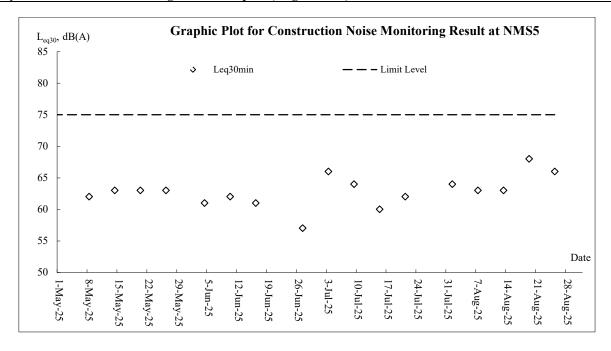


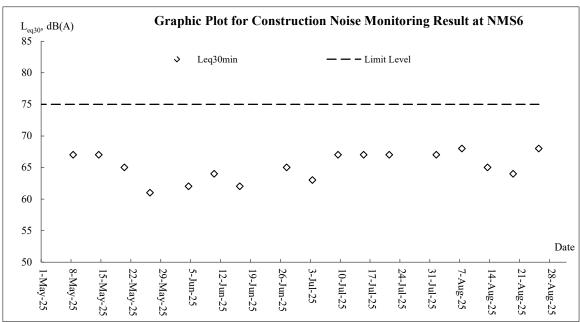




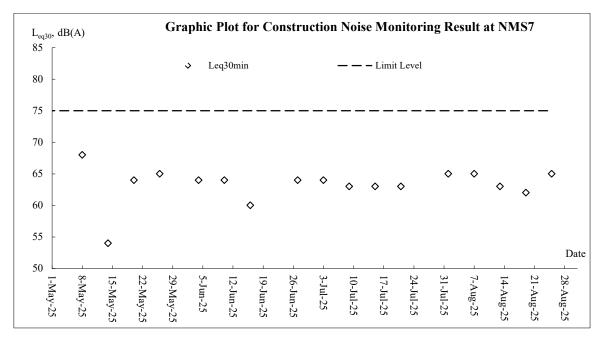


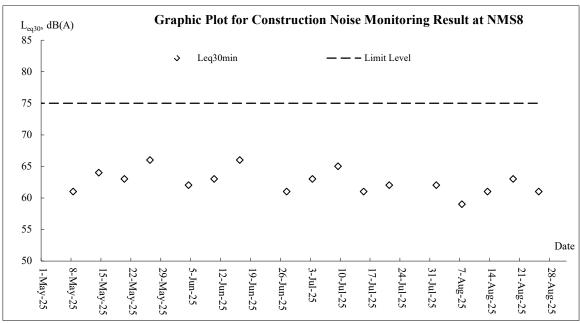




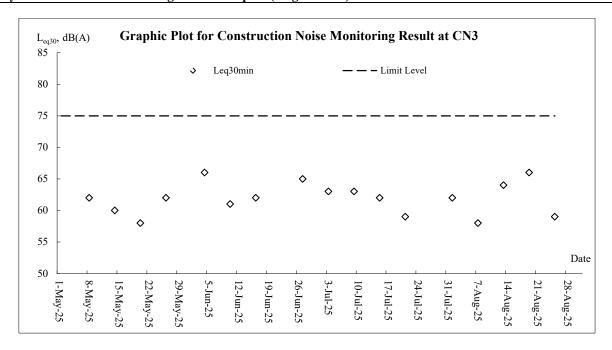














Appendix J

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-Aug-25	Fri	Very hot with sunny intervals	3	30.7	10.2	W/SW	80.5
2-Aug-25	Sat	Moderate southwesterly winds	109	27.3	13.7	W/SW	91.5
3-Aug-25	Sun	Moderate to fresh southwesterly winds	47.5	27.1	10.7	SW	89.2
4-Aug-25	Mon	Cloudy with showers and a few squally thunderstorms.	72.2	27	11.2	W/SW	92
5-Aug-25	Tue	Cloudy with showers and a few squally thunderstorms.	368.9	25.9	16.5	NW	92
6-Aug-25	Wed	Moderate to fresh southwesterly winds	6.8	26.8	16.2	S	90
7-Aug-25	Thu	Very hot with sunny intervals	0	29.4	6.2	SE	65
8-Aug-25	Fri	Mainly fine. Very hot in the afternoon. Light winds.	0	30.6	8.7	W/SW	77.5
9-Aug-25	Sat	Mainly cloudy with a few showers.	0	30.2	10	SE	77.5
10-Aug-25	Sun	Hot with sunny intervals and isolated thunderstorms	0	30.3	9	SE	73.5
11-Aug-25	Mon	Light to moderate southerly winds.	0.3	30.4	8	W/SW	77.5
12-Aug-25	Tue	Moderate southwesterly winds	8.5	29.5	8	W/SW	79.5
13-Aug-25	Wed	Moderate southwesterly winds	0	30.9	8.7	W/SW	75
14-Aug-25	Thu	Hot with sunny intervals and isolated thunderstorms	117.4	26.5	12.5	W	91.7
15-Aug-25	Fri	Mainly fine. Very hot in the afternoon. Light winds.	4.3	27.1	15.5	Е	83.7
16-Aug-25	Sat	Light to moderate southerly winds.	0	28.8	17.5	Е	73.2
17-Aug-25	Sun	Moderate east to southeasterly winds,	41.5	27.3	22.2	Е	82.5
18-Aug-25	Mon	Mainly cloudy with occasional showers and a few squally thunderstorms.	80.1	26.3	20.7	E/SE	93
19-Aug-25	Tue	Light to moderate southerly winds.	68.9	26.2	17.5	SE	93
20-Aug-25	Wed	Mainly cloudy with one or two showers	0.2	29.3	11.5	SE	80.7
21-Aug-25	Thu	Very hot with sunny periods and isolated showers	0	30.1	6.2	SE	79.2
22-Aug-25	Fri	Mainly fine. Very hot	0	30.3	7	W/SW	72.5
23-Aug-25	Sat	Isolated showers later. Light winds.	0.2	29.7	15	Е	70
24-Aug-25	Sun	Sunny intervals. Moderate to fresh east to southeasterly winds	0	28.8	20	E/SE	76.7
25-Aug-25	Mon	Mainly cloudy with a few showers.	0.1	28.9	14.5	E/SE	73.7
26-Aug-25	Tue	Sunny periods and one or two showers. Hot	0	29.7	8.7	Е	72.7
27-Aug-25	Wed	Sunny periods and a few showers. Very hot	0	29	11	E/SE	75
28-Aug-25	Thu	Mainly cloudy with a few showers.	2.7	26.8	11.2	E/SE	78.2
29-Aug-25	Fri	Sunny periods. Very hot	0.5	29.2	22	Е	71
30-Aug-25	Sat	Light to moderate easterly winds.	7.1	28	19.5	Е	80.7
31-Aug-25	Sun	Sunny periods. Very hot	0	29.2	12.5	SE	74



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	enerated M	onthly	Actual Q	uantities 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 ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)**	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m ³)*
Jan	3.641	0.000	0.000	0.000	3.641	0.000	0.000	0.000	0.000	0.000	0.065
Feb	1.533	0.000	0.000	0.000	1.533	0.000	0.000	0.000	0.000	0.000	0.071
Mar	1.216	0.000	0.000	0.000	1.216	0.000	0.000	0.000	0.000	0.000	0.099
Apr	1.028	0.000	0.000	0.000	1.028	0.000	0.000	0.000	0.000	0.000	0.045
May	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	3.925	0.000	0.000	0.000	3.925	0.000	0.000	0.000	0.000	0.000	0.032
Sep					 					i i i	
Oct					 						
Nov								,	7		
Dec					F	 		,	, 		
Total	19.016	0.000	0.000	0.000	19.016	0.000	0.000	0.000	0.000	0.000	0.618

^{*} Conversion factor for general refuse, 1 tonne = 2m³

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

[#] Estimation for next month



Appendix L

Implementation Schedule for Environmental Mitigation Measures



		Objectives of the				Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main	Who to implement the	Location of the					
Kei.		Concern to Address	measures?	measure	Contract	Contract	Contract	Contract	
	Dust Impact (Contraction I	Phase)			1	2	3	4	5
S4.7.2 to	Mitigation measures in form of regular watering under a	Minimize dust impact	Contractor	All construction	V	V	V	V	V
S4.7.5	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/m² to achieve the respective dust removal efficiencies.	at the nearby sensitive receivers		sites					
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	Contract 2	Contract 3	Contract 4	Contract 5
	works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction ion								
	 period. The port ion of any road leading only to construction ion site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; 								
	Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;								
	Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;								
	Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;								
	 Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area 								
	 sheltered on the top and the 3 sides; Cement or dry PFA delivered in bulk should be stored in a closed silo fit ted with an audible high level alarm which is interlocked with the material 								
	filling line and no overfilling is allowed; and Exposed earth should be properly treated by compact ion, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen,								



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	W/b = 4 =		Implementation Status					
			Who to implement the measures?	Location of the measure	Contract	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									
S5.6.9	 Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works; mobile plant should be sited as far away from NSRs as possible and practicable; and material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction ion airborne noise	Contractor	All construction sites where practicable	@	V	V	@	@	
S5.6.11 to S5.6.13	Use of "Quiet" Plant and Working Methods.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	V	N/A	N/A	N/A	N/A	
S5.6.14	Install temporary site hoarding (approx 2.5m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction ion noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	V	V	V	V	V	
S5.6.15 to S5.6.18	Install movable noise barriers, full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction ion sites where practicable	V	V	N/A	V	N/A	
S5.6.19	Sequencing operation of construction plants equipment.	Operate sequentially	Contractor	All construction	V	V	N/A	N/A	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended	Who to	Location of the	Implementation Status					
		Measures & Main Concern to Address	Measures & Main Implement the	measure	Contract	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	
S5.6.35	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	 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: At the start of site establishment, perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for set t ling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped. 	Control construction runoff	Contractor	All construction sites	@	@	@	@	V	



EMA O A	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to	T .: 6.1	Implementation Status					
EM&A Ref.			implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5	
	•	The dikes or embankments for flood protect ion should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt /sediment t rap. The silt /sediment t raps should be incorporated in the permanent drainage channels to enhance deposit ion rates.								
	•	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction ion.								
	•	Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.								
	•	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.								
	•	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sect ions wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.								
	•	All open stockpiles of construction ion materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to								



EM 0 A	The state of the s	Objectives of the	Who to	I		Imple	Implementation Status Contract Contract 2 3 4			
EM&A Ref.		Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract 2			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 sources. The oil interceptors should be emptied and								
	•	cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. Construction ion solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.								



		Objectives of the	Who to			Implementation Status					
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5		
S6.6.6 and	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bun ds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Not ices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the rivers. Sewage from Workforce Postshlas shorried to ilste should be provided for	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		sites							
	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			Impl	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



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	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.								
G0.5.2	Waste Management (Contr		Ta	1 4.11			* * *		***
S8.5.2	Good Site Practice The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter	Minimize waste generation during construction		All construction sites	V	@	V	@	V
	and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;								



		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
	(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	@	@

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		Objectives of the	Who to		Contract 1 2	ementation S	Status		
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	_		Contract 3	Contract 4	Contract 5
	 remove waste in timely manner; employ the trucks with cover or enclosed containers for waste transportation; obtain relevant waste disposal permits from the appropriate authorities; and disposal of waste should be done at licensed waste disposal facilities. 								
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			Impl	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
	• 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	@	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								
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



EM 2. A	Pagammandar	Objectives of the	Who to			Impl	2 3 4		
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract 2			
.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	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V V	N/A	3	4	N/A
	geotextile blanket for erosion control purposes;								



		Objectives of the	Who to			Contract 2 N/A V N/A	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract		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
	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.		sites					
S11.14.23,	Landscape and visual (Con All existing trees to be retained shall be carefully protected	traction Phase) Avoid disturbance and	Detailed Design	The whole	V	17	@	V	@
Table 11.9, CM1 [4]	during construction.	protection of the existing trees	Consultant /	project area where applicable	·		@	,	@
S11.14.23, Table 11.9, CM2 [3]	Tree Transplantation - Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled. Detailed transplanting proposal will be submit ted to relevant government departments for approval in accordance with LAO GN No. 7/2007, ETWB TCW No. 29/2004 and 10/2013. Final locations of transplanted trees shall be agreed prior to commencement of the work.	Minimize landscape impact and retention of landscape resources	Detailed Design Consultant /	Onsite where possible. Otherwise consider offsite locations	*	N/A	N/A	V	V



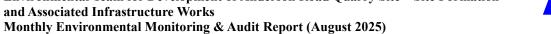
EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status			Status	
Kei.	-	Concern to Address	measures?	measure	Contract	Contract	Contract	Contract	Contract
					1	2	3	4	5
S11.14.23,	Control of operation night -time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

Legend: V = implemented; x = not implemented; a = partially implemented; x = pending to be implemented; x = not implemented;



Appendix M

Complaint Log





Appendix M1 Cumulative Complaint and Summons/ prosecution

Reporting Month	Number of Complaints in	Number of Summons/
	Reporting Month	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

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



Monthly Environmental Monitoring & Audit Report (August 2025)

April 2021	1	0
May 2021	0	0
June 2021	1	0
July 2021	1	0
August 2021	0	0
September 2021	2	0
October 2021	0	0
November 2021	0	0
December 2021	0	0
January 2022	0	0
February 2022	0	0
March 2022	1	0
April 2022	1	0
May 2022	3	0
June 2022	2	0
		0
July 2022	0 2	0
August 2022		
September 2022 October 2022	1	0
	1	
November 2022	0 0	0
December 2022		
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 (August 2025)

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



Appendix M2 Complaint Log

Log ref.	Compiai		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 flashing caused nuisance to nearby resident after 11:00 pm on 23 March 2017.	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	20 11 17	Tat House (賢達樓), On			SPRO hotline	NA	Mr. Hsu received a complaint from a resident living in the flat on 38/F of Yin Tat House (賢達樓), On Tat Estate. The resident complained about the noise level of our works during daytime.	Noise monitoring by Contractor was conducted in Yin Tat House, On Tat Estate, at around 2 pm on 28-Jul-2017. Another noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 10 am on 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	SPRO hotline	NA	Cheng) living at Shing Tat	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	Dogoiyo		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	G	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	EPD	N08/RE/		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	Int Vi	Residen t of Po Tat Estate	Constmistion	EPD	EPD (ref.N08/ RE/0002 2479-17)	Construction noise	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	by IEC on 3 Nov	TCS00864/ 16/300/F00 94
7	28-Jul-17	29-Aug-1 7	Anderson Road	unknow n	Dust	EPD	EPD (ref.N08/ RE/0002 3986-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident and status of the implementation of dust mitigation measures was considered effective based on the site observation.		TCS00864/ 16/300/F00 97



Log ref.	Compiai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
8	2-Aug-17	29-Aug-1 7	Chun Tat House, On 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	Ping Estate	Residen t of Sau Mau Ping Estate	Construction noise	SPRO hotline	NA	time after 12:00 am, even in Saturdays and Sundays. The noise nuisance caused a great disturbance to him. He made a request to	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.	by IEC on	TCS00864/ 16/300/F00 88



Log ref.	Complai	Date of Receive d by ET		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	Sau Nga House and	Residen t of Sau Mau Ping Estate	Construction noise	EDD	EPD (ref.N08/ RE/0003 1074-17)	On 21 September 2017, the same complaint further reported that the noise can be heard at both Sau Yee House and Sau Nga House even in daytime and he strongly requested the Contractor to follow up the case immediately.	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.		TCS00864/ 16/300/F00 88
11	27-Sep-1 7	3_()ct_	Chun Tat House, On Tat Estate	Residen t of On Tat Estate	Construction noise	EPD	RE/0002	He requested to shift 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 September and October 2017,		TCS00864/ 16/300/F01 06
12	3-Oct-17	H 3-OCT-L	House, On	Residen t of On Tat Estate	Construction noise	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	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.		
13	25-Oct-1 7	26-Oct-1 7	House, Po	Residen t of Po Tat	Dust	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		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				Estate				及回覆	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開始傳出機器不停探石的噪音(幾乎每日在08:00-19:00進行工程),已	Ad-hoc noise measurement was conducted by ET at rooftop of Chun Tat House in the morning of 20 November 2017 and measurement result was below the Limit Level under the EM&A Programme. CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident.		TCS00864/ 16/300/F01 09
15	13-Nov-1 7	14-Nov-1 7			nollution and	SPRO hotline	NA	盤万回,有照射燈深夜時 分仍然常開,影響居民正 常睡眠質素,照成一定的	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.	Compiai		Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
16	1-Nov-17	14-Nov-1 7	Shing Tat House, On Tat Estate		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。	acoustic mat as noise barrier at the site boundary near Shing Tat House. To enhance the noise mitigation measures, CWSTVIV deployed an acoustic mat as	no	
17	25-Aug-1 7		House, Sau	Residen t of Sau Mau Ping Estate	Construction Noise	EPD	(rel.NU8/		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	no comment by IEC on 14 Dec 2017	



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og ret	Date of Complaint
18	12-Sep-1 7	26-Oct-1 7	Chun Tat House, On Tat Estate	lt at (\m	C	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	21-Dec-1 7	Цонка	Residen t of Sau Mau Ping Estate	Construction Noise	EPD	NA	complained suspected construction noise from Anderson Construction Site at restricted hour (7pm to 7am).	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 18
20	20-Dec-1 7			Residen t of On Tat Estate		EPD		Resident of On Tat Estate complained that the traffic of construction vehicles 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,投訴安達臣道石礦場有大地盤,地盤大車工作時間不停出入揚	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	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.	Compiai	Docoivo	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	L og rot	Date of Complaint
				Mau Ping Estate				先生表示居於秀茂坪邨秀 義樓,指附近的安達臣道 一個由土木工程拓展署管 轄的石礦場不時於非允許 時段(即晚上七時後至翌 日早上)發出疑似打地基 的轟轟聲巨響,最近一次	diary that no construction activities were carried out during restricted hour at the subject site. Therefore, the complaint about noise nuisance during restricted hour should not be related to the Project.	by IEC on 8 Feb 2018	
22	15-Jan-1 8		Chun Tat House	Residen t of Chun Tat House of On Tat	Construction Noise	SPRO mobile	NA	construction noise of breaking rock for a long time and strongly requested to know exactly when will be the	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to	by IEC on 8 Feb	TCS00864/1 6/300/F0130



Log ref.	Date of Complai nt	Dogoiyo		Compl ainant	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	NA	"智泰對出,白天噪音過 大,可否加裝隔音板?高層 受影響"	the Environmental Team has conducted an ad-hoc noise measurement for Leq(30min) at the corridor of 22/F of Chi Tai House on 2 February 2018 facing the construction site. The measurement noise result was 65dB(A) which below the Limit Level under the EM&A Programme. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement.	no comment by IEC on 22 Feb 2018	TCS00864/1 6/300/F0137
24	1-Feb-18		Shing Tat House of On Tat Estate	Residen t of Shing Tat House (referre d by Mr. Hsu Yau Wai)	Construction Noise	SPRO hotline	NA	Mr. Hsu reported that some disturbing noise was heard after 6:00 pm from the site near Shing Tat House of On Tat Estate.	AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was only carried out from 8:00 to 18:00. However, rock breaking at System A was extended to 19:00 on 1 February 2018. As noise mitigation measures, noise barriers were erected for the works area.	lhy IH(' on	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	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採石仔噪音滋擾,由於單位與地盤太近,堅持環保署跟地盤太近,堅持環保署跟進及回覆如何處理及減低噪音,他亦要求知道何日完工.	Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking works shall tentatively be completed by end of April and it is believe that the noise impact should be minimized. Since the works were carried out within the non-restricted hours and noise monitoring noise were within acceptable level, it is considered that the works under the project did not breach the Noise Control Ordinance.	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 mitigation measures at works area in	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b



Log ref.	Date of Complai nt	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 8	/-May-1 &	Junction of Hiu Kwong Street and Hiu Ming Street		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		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.	no comment by IEC on 30 July 2018	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.	Compiai		Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
				So Lai-chu n							
30	22-Aug-1 8	29-Aug-1 8		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 方向行車入口因配合項目 需要而進行移除山坡工 程,但其鑽地鑿石的噪音 嚴重影響藍田康雅苑*居	practice including intermittent use of machine and plant and Sequencing	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	were completed at 23:00. It is considered that the complaint was not valid to the Project. Nevertheless, CWSTVJV was	no comment	TCS00864/ 16/300/F01 97a



Log ref.	Date of Complai nt	Doggivo		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	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	Е3	Kwun Tong DC membe r Ms. So Lai-chu	Construction Noise	Whatsap p Message	NA	KTDC member, Ms. Ann So, complaining the noise of the breaker at E3	As advised by the Contractor, the acoustic material wrapped on the breaker was worn-out on 24 October 2018 and replacement of new acoustic materials has been installed on the breaker immediately on 25 October 2018. The rock breaking works shall tentatively be completed to the road level in the middle of November 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. It is considered the complaint was an isolate case.	by IEC on	TCS00864/ 16/300/F02 09a
34	12-Nov-1 8	13-Nov-1 8	Anderson Road Quarry Site	Residen t of ChingT at House(r eferred	Construction Noise	SPRO Hotline	NA	Mr. Hui reported that he received complaint from a resident living in Ching Tat House about noise nuisance recently. Mr. Hui	The SPRO contacted Mr. Hiu and explained to him about the purpose and benefits of the tunnel to the residents nearby and the expected date of completion of the tunnel will be earlier than 2020. Moreover, the noise mitigation measures		TCS00864/ 16/300/F02 22a



Log ref.	Date of Complai nt	Receive		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		Anderson Road Quarry Site	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 8	Road ()narry	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	no comment by IEC on 18 Feb 2019	TCS00864/ 16/300/F02 24



Log ref.	Date of Complai nt	Dagaiya		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									was satisfied with the reply. Investigation Report has been completed by ET without comment from IEC.		
37	9-Dec-18	12-Dec-1 8	Anderson Road Quarry Site	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	27-Dec-1 8	Anderson Road Quarry Site	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			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	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	411 1010 1	Anderson Road Quarry Site	Undiscl osed	10.100	SPRO hotline	NI A	A public complaint was received by SPRO hotline on 30 January 2019 regarding the construction noise near Ma Yau Tong Village and requested to add noise barrier as soon as possible.	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.	by IEC on	TCS00864/ 16/300/F02 49a
41	15-Feb-1 9		Anderson Road Quarry Site	Undiscl osed	noise	1823	2-494807 4127	CEDD on 15 February 2019, which the complainant complained about the construction noise generated from the CEDD site near 法源寺 (Ma Yau Tong Village).	In response to the complainant, CWSTVJV has proposed alterative quiet work method to alleviate the noise impact to the public. They will schedule the noisy activities to be carried out after 10am as far as practicable to minimize the impact to resident nearby, given that not affecting the site progress. Moreover, the coverage of acoustic barriers will be extended in view	by IEC on 29 Mar	TCS00864/ 16/300/F02 51a



Log ref.	Compiai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								for the details of works and the completion date, the complainant also requested CEDD to use other construction methods in order to re The resident from Sau			
42	21-Feb-1 9	25-Feb-1 9	Anderson Road Quarry Site	Undiscl osed	noise	EPD	NA	Hong House complained that the noise from the Anderson Road Quarry construction site has gotten worse. In addition, sometimes even after midnight there are noise coming from the site. With the echo produces from the environment, this is not helping at all. Really a big disturbance to the residence in the area. The complainant suspecting the sound proof	In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate, such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.erway by ET.	no comment by IEC on 28 Mar 2019	TCS00864/ 16/300/F02 50



Log ref.	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	on the noise generated from the construction works of the Anderson Road Quarry Site affecting			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.	no comment by IEC on 6 May 2019	TCS00864/ 16/300/F02 64



Log ref.	Compiai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
45	16-Jun-1 9	18-Jun-1	Road Onarry	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.	The Contractor explained that general cleaning by water jet was carried out in the construction site on the concerned day. Since the work did not involve the use of Powered Mechanical Equipment (PME), it would not violate the noise control ordinance. The Investigation report is underway by ET.		TCS00864/ 16/300/F03 01a
46	12-Jul-19		Anderson Road Quarry Site	Undiscl osed	dust	EPD	NA	emission at Anderson Road Quarry site.	was mostly rainy day throughout June and	no comment by IEC on 12 August 2019	TCS00864/ 16/300/F02 92b



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



Log ref.	Compiai			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	received by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion	shall be provided to reduce to noise nuisance to the public. As the works	by IEC on 27 Dec	TCS00864/ 16/300/F03 32a
50	7-Nov-19	11-Nov-1 9	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	shall be provided to reduce to noise nuisance to the public. As the works	by IEC on 27 Dec	TCS00864/ 16/300/F03 33a



Log ref.	Date of Complai nt	Receive	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	L AG PAT	Date of Complaint
51	10-Nov-1 9	12-Nov-1 9	Underpass	Undiscl osed	Noise	EPD	NA	將來通車,相信噪音不只 8-6,現懇請環保署為本村 居民正式評估,並向政府 提出村民困擾,考慮盡快 設置隔音屏。 On 11 November 2019 寶琳路近馬游塘村開掘隧 道 的 工 程 地 盤 每 日	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	no comment by IEC on 30 Dec	TCS00864/ 16/300/F03 37



Log ref.	Date of Complai nt	Dogoiyo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
52	11-Nov-1 9	9	Facilities Building on On Sau Road	Mr. Wong (residen t of Yung Tai House of On Tai Estate)	Noise	1823	ref. 2-597630 3183	November 2019, the project hotline received a call from the same complainant reported on the noise nuisance near On Sau Road and On Yan Street. He suggested to speed up the noise making works by intensely concentrate the excavation	implemented the noise mitigation measures to reduce to noise impact to the public. However, in response to the complaint, the Contractor was advised to enhance the performance of the temporary noise barriers such as increase the coverage of the noise barrier. Since the works were conducted within normal working hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 38a
53	5-Mar-20		Tunnel work of Anderson Road Quarry Site (the Underpass)	t of On	Noise	EPD	3. T. A.	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	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		TCS00864/ 16/300/F03 59a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
55	23-Mar-2 0		Near Lin Tak Road (E11)	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 regarding overflow of	by CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection, no outflow of muddy water from the site was observed and the condition of concerned Lin Tak Road was satisfactory. It is considered that the complaint was unlikely due to the project.	by IEC on	TCS00864/ 16/300/F03 60a
56	17-Mar-2 0		Anderson Road Quarry Site	Residen t of Yan Tat House	Noise	Project hotline	NA	仁達樓 2613 室居民反映,安達臣道石礦場發展用地工程噪音持續兩年,要求工程團隊下周派員到有關單位視察,並採取可行的噪音緩解措施。許有為區議員要求陪同視察。A public complaint was received by hotline on 17 March 2020 regarding the	In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. 5. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	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			TCS00864/ 16/300/F03 70a



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
59	18-Jun-2 0		Anderson Road Quarry Site, System B		Noise	EPD	NA	Tat House. The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm.	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	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	Dogoiyo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								relevant department to follow up.	close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme		
60	14-Nov-2 0	18-Nov-2 0	Near Hiu Ming Street Playground (E8)	Undiscl osed	Noise	1823	NA	A public complaint was received by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up	In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 24
61	4-Dec-20	7-Dec-20	Opposite to On Tai Estate – lower portion of Road L4	Undiscl osed	Dust	EPD	NA	A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site opposite to On Tai Estate had dust emission problem due to lack of water	In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. In view of the potential traffic dust impact and implementation of dust mitigation measures, it is considered that the complaint was not valid to the Project	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 34
62	3-Dec-20	7-Dec-20	Ma Yau Tong Village (East Portal)			1823 & EPD	3-657414 1017	A public complaint was received by 1823 and EPD	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	Complaint Location	Compl ainant	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
							dust and noise impact arising from the project. There were acoustic mats erected on the slope of East	impact to the resident nearby. To response the concern from the complainant, as enhancement noise measure, the Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement	4 January 2021	
63	7-Jan-21	7-Jan-21	System B	Residen t of Yan Tat House	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	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public.6. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 41



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
64	18-Mar-2 1	18-Mar-2 1	Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	osea	Noise	1823 & EPD	NA	generated from construction works at Anderson Road Quarry Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am	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	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	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	Residen t of Chi Tat House, On Tai Estate		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	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 comment by IEC on 19 July 2021	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	23-Jul-21	Anderson Road Quarry Site	DSD	Water Quality	EPD	EPD Ref.: 13208-21	EPD received complaints from DSD on 20 and 21 July 2021 concerning about discharge of muddy water as found on Po Lam Road and at the drainage facility near Tin Hau temple.	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. In view of the site condition and inclement weather condition on the complaint days, it is considered that the complaints raised by DSD were unlikely due to the C1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.	by IEC on	TCS00864/ 16/300/F04 85b
69	14&16/S ep/21	15-Sep-	Anderson Road Quarry Site	DSD	Water Quality	EPD	NA	concerning about discharge 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.	Date of Complai nt	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	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	Our investigation revealed that there was no construction works under the Project undertaken during the concerned period by the complainant, and there were other concurrent contracts on Anderson Road Quarry Site and the contribution noise may be related to others. Therefore, it is considered that the noise complaint was unlikely to be related to the works under the Project. Nevertheless, CWSTVJV was reminded to properly maintain the noise mitigation measures as far as practicable considering the construction site is relatively close to residential area.	No comment by IEC on 15 November 2021	
71	30/Mar/2 2	·)	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 28 March 2022 concerning about siltation and discharge of muddy water observed at the public drainage system	In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the	No comment by IEC on 19 April 2022	TCS00864/ 16/300/F05 40



Log ref.	Date of Complai nt	Date of Receive d by ET	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								at catchpit SSH4001400 near Tin Hau Temple and the site discharge points at Po Lam Road on 28 March 2022	interfacing contractors under rainy days and not due to the works under the Project.		
72	14/Apr/2 2	25/Apr/2 2	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	DSD carried out site inspection at site discharge point at Po Lam Road on 12 April 2022 and observed discharge of muddy water at public drainage system. The case was then referred to CEDD and EPD to investigate the source of the muddy water discharge.	In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors and not due to the works under the Project.		TCS00864/ 16/300/F05 41
73	11/May/ 2022	25/May/2 022	Anderson Road Quarry Site	DSD	Water Quality	DSD		EPD received complaint from DSD on 11 May 2022 concerning about muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road.	water found in the concerned catchpit SSH4001400 near Tin Hau Temple and Po Lam Road on 11 to 13 May 2022 were	No comment by IEC on 13 June 2022	TCS00864/ 16/300/F55 9
74	17/May/2 022		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	EPD received complaint from DSD on 14 and 16 May 2022 concerning about muddy water observed entering Tsui Ping River.	public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at unstream of Tsui Ping River. It is	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	9/Jun/202 2	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.	have been caused by the project. Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.		TCS00864/ 16/300/F56 3
76	6, 7, 8/J un/2022		Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	Ping River this morning at the upstream near junction	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 system. No muddy water	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 0
79	12/Aug/2 022	12/Aug/2 022	Anderson Road Quarry Site	DSD	Water Quality	DSD	NA	muddy water was observed entering Tsui Ping River in the morning of 12 August 2022 with similar situation	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning of 12 August 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 12 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4.	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 1
80	29&30/ Sep/2022	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	Dogoiyo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									discharge from ARQ Site was evident in the morning of 29 and 30 September 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 29 and 30 September was unlikely to have been caused by the ARQ contracts of C1 or C4.		
									During wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the discharge quality from the Site to avoid non-compliance. The ET will pay special attention on water quality mitigation measures implementation on site through regular site inspection, and give advice on remedial action when necessary.		
									Incidentally, it is noted that Site R2-9 has kept discharging muddy water to downstream manhole D310. Record photos of the manhole dated 6, 7 and 8 October 2022 are enclosed for reference.		
81	18/Oct/ 2022	20/Oct/ 2022	Anderson Road Quarry (ARQ) Site	DSD	Dust Quality	Referred by 1823 to EPD	NA	referred by 1823 to EPD on 18 October 2022, regarding the dust problem generated from the construction site in Anderson Road near On Tai Estate due to typhoon	In our investigation, both the Contractors had implemented dust mitigation measures to reduce to potential impact to the public. However, in particular during dry season, Contract 4 was reminded to enhance the dust suppressive measures as far as practicable. As there were no air monitoring results exceeding the limit level, it is considered that the dust	Sent to EPD on 3 November 2022	TCS00864/ 16/300/F59 6



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								who was a resident of Shing Tai House, On Tai Estate. The complainant expressed concern about the construction dust	mitigation measures implemented were effective in suppressing the fugitive dust. Nevertheless, as the construction site is 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 Programme.		
82	17/May/2 023	19/May/2 023	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	from DSD concerning muddy water was observed entering Tsui Ping River from the upstream in the afternoon of 17 th May 2023, with similar situation at Po Lam Road (山渠)。 The case was then referred from EPD to CEDD for follow-up. Environmental Team (ET) initiated the handing procedure in accordance with the Environmental Monitoring & Audit Manual to investigate whether it is related to the Project of Development of Anderson Road Quarry (ARQ) Site.		Sent to EPD on 29 May 2023	TCS00864/ 16/300/F64 3



Lo ref	TRICHIED A		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									inspections, and provide advice on remedial action when necessary.		
83	4 July 2 023	4 July 2 023	Anderson Road Quarry (ARQ) Site	DSD	Water Quality	DSD	NA	from the upstream in the morning of 4 July 2023,	in the morning of 4 July 2023 was caused by the ARQ contracts of Contract 1 or	Sent to EPD on 18 July 2023	TCS00864/ 16/300/F65 3
84	19 Jan 2 024	23 Jan 2 024	On Kin Road, Anderson	KTDC membe r Mr. Hsu Yau-wa i	Noise Quality	EPD	NA	received by EPD Regional Office (East) on 19 January 2024 regarding the construction noise generated from	As advised by the RE of Contract 4, under CEDD Contract No. ED/2020/02, the Contractor was required to lift 9 precast beams of an elevated walkway. The works was carried out over for four consecutive nights starting from 16 January 2024 and has already completed. The Contractor	Sent to EPD on 29 January 2024	TCS00864/ 16/300/F68 4a



Log ref.	Date of Complai nt	Dogoiyo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								1	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	Dogoisso	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	NA	from DSD concerning muddy water was observed	implementation of mitigation measures were summarized below:	Sent to EPD on 30	TCS00864/1 6/300/F0702 a



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



Log ref.	Compiai		Complaint Location	Compl ainant	Complaint nature	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 December 2024	20 Dece mber 20 24	Anderson Road Quarry (ARQ) Site	Public	Dust and Muddy Water	EPD	NA	泥水流出地盤,直接流到 外面雨水渠。大型地盤車 輛,泥頭車無洗車設施離 開地盤,成條街道沙塵, 經常吹到成條街沙塵滾滾 建築物料沒有掩蓋,經常	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	Dogoiyo	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	Sent to EPD on 5 March 2025	TCS00864/1 6/300/F0742 b



Log ref.	Date of Complai nt	Date of Receive d by ET	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Hallow iin action II ag rat I	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