

JOB NO.: TCS00864/16

CEDD SERVICE CONTRACT NO. NTE/07/2016 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT **REPORT (AUGUST 2021)**

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date **Reference No. Prepared By Certified By** 16 September 2021 TCS00864/16/600/R0495v2

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Version	Date	Remarks	
1	13 September 2021	First Submission	
2	16 September 2021	Amended according to the IEC's comments	



Civil Engineering and Development Department	Your reference:	
East Development Office		
8/F, South Tower, West Kowloon Government Offices	Our reference:	HKCEDD10/50/107551
11 Hoi Ting Road		
Yau Ma Tei	Date:	16 September 2021
Kowloon		

Attention: Mr Lam Sai Wing, Sam

BY POST

Dear Sirs

Agreement No.: NTE 08/2016 Independent Environmental Checker for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring and Audit Report (August 2021)

We refer to the emails of 14 and 16 September 2021 from Action-United Environmental Services and Consulting attaching a Monthly Environmental Monitoring and Audit Report (August 2021) for the captioned project.

We have no further comment and hereby verify the captioned report.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Frankie Yuen on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED am

James Choi Independent Environmental Checker

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EXECUTIVE SUMMARY

- ES01 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract is from December 2016 and the Contract Period is 70 months.
- ES02 The Services under the Service Contract is to provide environmental monitoring and audit (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 Anderson Road Quarry and other relevant statutory requirements.
- ES03 To facilitate the project management and implementation, the Service Contract has been divided to three CEDD contracts including Contract NE/2016/01 (Contract 1), Contract NE/2016/05 (Contract 2) and Contract NE/2017/03 (Contract 3). As advised by the Resident Engineer (RE), the commencement date of Contract 1 was 21 December 2016 and the major construction works has been commenced on 12 April 2017. The commencement date of Contract 2 was 31 March 2017 and the major construction activities have been commenced on 2 May 2017. Furthermore, Contract 3 was commenced on 31 May 2018 and the major construction activities works was commenced in November 2018. The EM&A programme under the Project was commenced on 12 April 2017 pursuant to the requirement under the EM&A manual. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021.
- ES04 This is the 53rd monthly EM&A report presenting the monitoring results and inspection findings for the period from 1 to 31 August 2021 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES05 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	
Ain Opelity	1-hour TSP	6	90	
Air Quality	24-hour TSP	4	20	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	7	28	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2017/03	3	12	

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES06 No exceedance of air quality was recorded in the Reporting Period. For construction noise monitoring, no Limit Level exceedance was recorded and no noise complaint (which triggered Action Level) was received in the reporting period. The environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

Environmentel	Manitanina	Monitoring Action Parameters Level	T ::4	Event & Action			
Environmental Aspect	Parameters			NOE Issued	Investigation	Corrective Actions	
Air Quality	1-hour TSP	0	0	0	NA	NA	
Air Quality	24-hour TSP	0	0	0	NA	NA	
Construction Noise	L _{eq(30min)} Daytime	0	0	0	NA	NA	



ENVIRONMENTAL COMPLAINT

ES07 In the reporting period, no environmental complaint was received.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES08 No environmental summons or successful prosecutions for the Project were recorded in the Reporting Period.

REPORTING CHANGE

ES09 There is no reporting change in the Reporting Period.

SITE INSPECTION

- ES10 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 1* were carried out by the RE, ET and Contractor on 5, 10, 17, 24 and 31 August 2021 in which IEC joined the site inspection with SSEMC on 5 August 2021. No non-compliance was noted during the site inspection.
- ES11 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 2* were carried out by the RE, ET and Contractor on 4, 11, 19 and 25 August 2021 in which IEC joined the site inspection on 19 August 2021. No non-compliance was noted during the site inspection.
- ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 3* were carried out by the RE, ET and Contractor on 6, 13, 20 and 27 August 2021 in which IEC joined the site inspection with SSEMC on 6 August 2021. No non-compliance was noted during the site inspection.
- ES13 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 5* were carried out by the RE, ET and Contractor on 5, 12, 19 and 24 August 2021 in which IEC joined the site inspection with SSEMC on 24 August 2021. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- ES14 During wet season, 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.
- ES15 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.
- ES16 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.
- ES17 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.



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1

1. INTRODUCTION

PROJECT BACKGROUND

- 1.1.1 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") has been awarded the CEDD Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract was December 2016 and the Contract Period is 70 months.
- 1.1.2 The Services under the Service Contract is to provide environmental monitoring and audit (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.
- 1.1.3 Development of Anderson Road Quarry is to provide land and the associated infrastructures for the proposed land used at the existing Anderson Road Quarry Site at the North-eastern of East Kowloon according to the final Recommended Outline Development Plan (hereinafter named as the Project Works).
- 1.1.4 To facilitate the project management and implementation, the Service Contract has been divided to three CEDD contracts including Contract NE/2016/01 (Contract 1), Contract NE/2016/05 (Contract 2) and Contract NE/2017/03 (Contract 3). As advised by the Resident Engineer (RE), the commencement date of Contract 1 was 21 December 2016 and the major construction works has been commenced on 12 April 2017. The commencement date of Contract 2 was 31 March 2017 and the major construction activities have been commenced on 2 May 2017. Furthermore, Contract 3 was commenced on 31 May 2018 and the major construction activities works was commenced in November 2018. The EM&A programme under the Project was commenced on 12 April 2017 pursuant to the requirement under the EM&A manual. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021.
- 1.1.5 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.
- 1.1.6 This is the **53rd** monthly EM&A report presenting the monitoring results and inspection findings for the period from **1 to 31 August 2021** (hereinafter referred as "Reporting Period").

1.2 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 8Environmental Complaints and Non-ComplianceSection 9Implementation Status of Mitigation MeasuresSection 10Conclusions 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 3 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 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 31 March 2017 and 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;
 - (iv) Construction of green routes connecting to Jordan Valley Park and Choi Wing Road; and
 - (v) Slope improvement works in the vicinity of Po Lam Road South and other associated works.

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

- 2.1.4 The commencement date of Contract 3 is on 31 May 2018 and 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 5 (Contract No. ED/2019/02)

- 2.1.5 The commencement date of Contract 5 is on 30 March 2021 and the major Scope of Work of the Contract 5 is listed below:
 - Construction of two-way escalator link between Sau Mau Ping Road and the existing footbridge to Po Tat Estate;
 - Construction of two-way escalator link between Sau Mau Ping South Estate and the existing footbridge to Sau Mau Ping Road;
 - Construction of footbridge, 3m, clear width, with and about 20m high lift tower between Hiu Kwong Street and the podium of Sau Ming House, Sau Mau Ping Estate;
 - Construction of footbridge, 3m clear width, with an about 40m high lift tower between Sau Mau Ping Road and the podium of Po Tat Estate; and
 - Ancillary works including associated civil, geotechnical, structural, electrical and mechanical engineering and landscaping works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization and contact details for Contracts 1, 2, 3 and 5 are shown in *Appendix B*.

2.3 CONSTRUCTION PROGRESS

2.3.1 The 3-month rolling construction programme for Contracts 1, 2, 3 and 5 are shown in *AppendixC*. The major construction activities conducted in the Reporting Period are summarized in below.

Contract 1 (NE/2016/01)

East Portal Area:

- Construction of RWA1B Retaining Wall completed.
- Installation of the cross-ducting pipes complete.

Underpass Tunnel:

- Erection and installation of the VE Panel sub-frame.
- Laying road base bituminous insider underpass

Po Lam Road

- Excavation work in progress to install ducting pipes and draw pits and installation of k1 kerb
- Removal the existing concrete pavement in progress for installation of ducting crossing pipes.
- Reinstated the concrete carriageway at Po Lam road and rebuilt the gully.
- Re-build the modification catch pit at Po Lam road and Slope A1.

Underground Stormwater Retention Tank (USRT):

- Backfill work
- Zone A wall and top slab work
- Ventilation Building structure works

Water Reservoir:

• Rock excavation for drainage pipe laying and backfilling work.



- Rock excavation work to formation level outside water reservoir and soil excavation work.
- Construction of downpipe from reservoir to PPT.

Artificial Flood Attenuation Lake:

- East side and west side of concrete lining at Lake bottom complete. Remaining work.
- Laying granular bed at remaining parts (center) of Lake Bottom.
- To continue laying HDPE membrane and mesh wire at remaining part (center of Lake Bottom.
- Retaining wall base slab 51 out of 52 and stem wall 50 out of 52 complete, the construction of remaining base slab and stem wall.
- To continue with the drainage works.
- Construction wall of eastern landing.

Pedestrian Connectivity System B (PC System B):

Internal ABWF works in System B

Construction of Internal Road L1:

- Road breaking for road L1 west.
- Drainage works for road L1 east cycle track.
- Watermain construction
- Road L1 west lower level and middle level drainage construction
- Construction of Infiltration Planter.

PTT:

- PMMA Panel Installation work
- Concrete pavement construction
- Noise Barrier

Contract 2 (NE/2016/05)

- Temporary Traffic Arrangement (TTA)
- Soil Nail Construction
- Mass Concrete construction
- Formwork and Falsework installation and dismantling
- Lifting Tower Construction
- Rebar fixing

Contract 3 (NE/2017/03)

Pedestrian Connectivity Facility E8 (PC-E8)

- Testing to 14 nos. of escalators are in-progress.
- E&M works and ABWF works are in-progress.
- Erect roof's penal on top of steel frame are completed.

Pedestrian Connectivity Facility E11 (PC-E11)

- ABWF works and E&M works at LT2 & ST2 and in-progress.
- RC construction works at LT1 & ST1 in-progress.
- RC construction works, ABWF work and E&M works inside the footbridge steel frame are in-progress.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- RC works at SyA-LT1, LT2 & ST1 are in-progress.
- Erect steel works inside RC structure is in-progress.

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- Mini pile works at PC4 & PC6 are in-progress.
- RC works for pier SyB-P2 in-progress.



• Pre-bored H-pile works at PC1 is in-progress.

Tseung Kwan O Bus-Bus Interchange New Public Toilet (BBI-Toilet)

The completed toilet was handed over to Food and Environmental Hygiene Department on 30 September 2020; Additional works under an instruction is in-progress.

Contract 5 (ED/2019/02)

Portion 1

- Demolish of existing upstand wall at E5
- Tree felling works
- Predrilling Works

Portion 2

- Tree transplanting Works.
- Excavation to remove obstruction to pilling works

Portion 3

- Tree Felling Works
- · Erected Timber Platform for Pre-drilling works

Portion 4

- Pre-drilling works
- Excavation Trail Trench to expose 11kV cables
- 2.3.3 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 1, 2, 3 and 5 are presented in *Tables 2-1, 2-2 and 2-3*.

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

		Licen	se/Permit Sta	tus	
Item	Description	Permit no./ account	Valid I	Period	Status
		no./ Ref. no.	From	То	Status
1	Form NA – Notification pursuant to Air pollution Control (Construction	EPD ref. no. 411762	NA	NA	valid
	Dust) Regulation Form NB – Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 412730	NA	NA	valid
2	Chemical Waste Producer Registration	Registration no. WPN 5213-292-C4115-01	15 Feb 17	End of project	valid
3	Water Pollution Control Ordinance – Discharge License	WT00028050-2017	29 May 17	31 May 22	valid
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no. 7026925	20 Jan 17	End of project	valid
5	Construction Noise Permit	GW-RE0554-21	9 Jun 21	8 Dec 21	valid

Table 2-2 Status of Environmental Licenses and Permits of the Cont	ract 2
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	atus				
Item Description		Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	Status
1	Notification pursuant to Air pollution Control	EPD ref. no. 312173	NA	NA	valid



		License/Permit Status			
Item	Description	Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	Status
	(Construction Dust) Regulation				
2	Chemical Waste Producer Registration	Registration no. WPN 5213-294-K2890-08	7 Jul 17	End of Project	Valid
3	Water Pollution Control Ordinance – Discharge	WT00028685-2017	02 Aug 17	31 Aug 22	Valid
	License	WT00028686-2017	02 Aug 17	31 Aug 22	Valid
		WT00028687-2017	02 Aug 17	31 Aug 22	Valid
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no.7027548	12 Apr 17	End of project	Valid

Table 2-3	Status of Environmental Licenses and Permits of the Contract 3

		License/Permit Status			
Item	Description	Permit no./ account	Valid	Period	Status
		no./ Ref. no.	From	То	
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	Notification to EPD on 29	9 May 2018.		
2	Chemical Waste Producer Registration	For Area R1W3 (E11) Registration no. WPN : 5213-294-C4239-04	6-Aug-18	End of Project	Valid
		For Area System A Registration no. WPN: 5213-293-C4239-05	6-Aug-18	End of Project	Valid
		For Area System B Registration no. WPN 5213-294-C4239-03	6-Aug-18	End of Project	Valid
		For Area E8 Registration no. WPN 5213-292-C4239-06	6-Aug-18	End of Project	Valid
3	WaterPollutionControlOrdinance	For Area R1W3 (E11) WT00032742-2018	18-Jan-19	31-Jan-24	Valid
	DischargeLicense	For Area System A WT00033223-2019	31-Jan-19	31-Jan-24	Valid
		For Area System B WT00033229-2019	24-Jun-19	30-Jun-24	Valid
		For Area E8 WT00033224-2019	21-Mar-19	31-Mar-24	Valid
4	WasteDisposalRegulation-BillingAccount forDisposalofConstructionWaste	Account no.7031075	20 July 2018	End of project	Valid



		License/Permit Status			
Item	Description	Permit no./ account Valid Period		Period	Status
		no./ Ref. no.	From	То	
1	Form NA –	EPD ref. no. 466364	NA	NA	Valid
	Notification				
	pursuant to Air				
	Pollution Control				
	(Construction Dust)				
	Regulation			-	
2	Chemical Waste	Registration no.	10.14 01	End of	** 11 1
	Producer	WPN 5298-293-W3611-01	12 May 21	project	Valid
	Registration				
3	Water Pollution				
	Control Ordinance	Working in Progress			
	– Discharge				
	License				
4	Waste Disposal				
	Regulation –				
	Billing Account for	Working in Progress			
	Disposal of				
	Construction Waste				



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

such as L_{10} and L_{90} shall also be obtained for reference.

Table 3-1Summary of EM&A Requirements

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 3-2Impact Monitoring Stations – Air Quality	- Air Quality
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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,	Ground of Planned School	Not yet
		Site C2 Note 1	facing Anderson Road	commenced
AMS-5	DARE-06	Block 5, DAR	Main roof of Oi Tat House of	Active



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ID	ASR ID in EIA	Location in theIdentified Location duringEM&A ManualSite Visit		Status
		Site E	On Tat Estate facing the project site	
AMS-6	DARE-17	Block 9, Site E	Main roof of Hau Tat House of On Tat Estate facing the project site	Active
AMS-7	AMYT-04	Ma Yau Tong Village	Balcony at 2 nd floor of Village House Anderson Road No. 1 facing the project site	Active

Note 1: The ASR is under construction.

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

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

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.

ID	NSR ID in EIA	Location	Status
NMS-1	Site C2 –	Ground of planned school at DAR facing	Not yet
	School 05 Note 1	the project site	commenced
NMS-2	Site E – School	Rooftop of S.K.H. St. John's Tsang Shiu	Active
(@)		Tim Primary School, where 1m from the	
		exterior of the building facing the project	
		site	
NMS-3(:	Site C2 – R102-	Ground of Ancillary Facilities Building	Active
)		facing the project site	
NMS-4*	Oi Tat House	1m from the exterior of ground floor	Suspended
		façade of Oi Tat House of On Tat Estate	
		facing the project site	
NMS-4a	Oi Tat House	Rooftop of Oi Tat House where 1m from	Active
#		the exterior of Oi Tat House facing the	
		project site	
NMS-5#	Hau Tat House	22/F, refuge floor of Hau Tat House where	Active
		1m from the exterior of Hau Tat House	
		facing the project site.	
NMS-6~	Yung Tai	Rooftop of Yung Tai House where 1m	Active
	House of On	from the exterior of the building facing	
	Tai Estate	the project site)	
NMS-7~	Chi Tai House	Rooftop of Chi Tai House where 1m from	Active
	of On Tai	the exterior of the building facing the	
	Estate	project site	

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



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ID	NSR ID in EIA	Location	Status
NMS-8^		1m from the exterior of the building façade and facing the construction site	Active

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
- (#) 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.

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		

Additional Impact Monitoring Stations – Construction Noise Table 3-4

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:
 - 3 times every six days during course of works throughout the construction 1-hour TSP period
 - 24-hour TSP Once every 6 days during course of works throughout the construction period

Noise Monitoring

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



3.5 MONITORING EQUIPMENT

Air Quality Monitoring

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

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

Table 3-5Air Quality Monitoring 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	Rion NL-31&52
Calibrator	Rion NC-73
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

3.6 MONITORING METHODOLOGY

1-hour TSP

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

24-hour TSP



- 3.6.3 The equipment used for 24-hour TSP measurement is Thermo Andersen Model GS2310 TSP high volume air sampling system, which complied with *EPA Code of Federal Regulation*, *Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:
 - (a.) An anodized aluminum shelter;
 - (b.) A 8"x10" stainless steel filter holder;
 - (c.) A blower motor assembly;
 - (d.) A continuous flow/pressure recorder;
 - (e.) A motor speed-voltage control/elapsed time indicator;
 - (f.) A 7-day mechanical timer, and
 - (g.) A power supply of 220v/50 Hz
- 3.6.4 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-
 - A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
 - No two samplers should be placed less than 2 meters apart;
 - The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
 - A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
 - Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
 - The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge;
 - The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
 - After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.
- 3.6.5 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.
- 3.6.6 The HVS used for 24-hour TSP monitoring will be calibrated before the commencement for sampling, and after in two months interval for 1 point checking of maintenance and six months interval for five points calibrate in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period and the HOKLAS accredited certificate of laboratory are attached in *Appendix E*.

Noise Monitoring

3.6.7 As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters



in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

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

Meteorological Information

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

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

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

Monitoring Station	Action Level (µg /m ³)		Limit Level (µg/m ³)	
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP
AMS-1	313	154	500	260
AMS-1a(*)	313	154	500	260
AMS-2	319	165	500	260
AMS-3	319	165	500	260

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



AMS-4	315	165	500	260
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

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

Table 3-8 Action and Limit Levels for Construction Noise

Manitaring 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(@)		70 dB(A) = 703 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 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}			
CN2+		70 dB(A) ^{Note 1} / 65 dB(A) ^{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 3December 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

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-5, AMS-6 and AMS-7. Since installation of HVS for 24-hour TSP at AMS-2 and AMS-3 were pending approval from relevant departments, only 1-hour TSP monitoring was conducted at AMS-2 and AMS-3. No monitoring was conducted at AMS-4 since they are planned ASR which are still under construction/ not yet constructed.
- 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 90 events of 1-hour TSP monitoring and 20 events of 24-hours TSP were carried out and the monitoring results are summarized in *Tables 4-1 to 4-5*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

	24-hour		1-hour TSP (µg/m³)			
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
6-Aug-21	21	3-Aug-21	9:11	83	77	89
12-Aug-21	15	9-Aug-21	14:30	62	59	57
18-Aug-21	16	14-Aug-21	13:26	77	88	93
24-Aug-21	12	20-Aug-21	13:07	79	83	81
30-Aug-21	14	26-Aug-21	8:49	42	46	43
Average (Range)	16 (12 - 21)	Average (Range)			71 (42 - 93)	

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

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

1-hour TSP (μg/m³)					
Start Time	1 st reading	2 nd reading	3 rd reading		
9:28	97	86	84		
9:06	70	74	68		
13:11	88	97	91		
13:19	81	89	90		
9:16	49	53	51		
rage	78 (49 - 97)				
	9:28 9:06 13:11 13:19 9:16	Start Time1st reading9:28979:067013:118813:19819:1649rage	Start Time1st reading2nd reading9:2897869:06707413:11889713:1981899:164953rage78		

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

	1-hour TSP (μg/m³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading		
3-Aug-21	9:37	77	91	84		
9-Aug-21	12:30	69	74	68		
14-Aug-21	13:04	97	114	96		
20-Aug-21	13:25	91	84	103		
26-Aug-21	9:31	46	50	47		
Ave	erage		79			
	ange)	(46 – 114)				

26-Aug-21

Average

(Range)



67

Tuble 1 1	fusice is summary of 2 mout and 1 mout 151 mountoring results (1115 c)						
	24-hour	1-hour TSP (µg/m³)					
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
6-Aug-21	38	3-Aug-21	13:01	87	83	91	
12-Aug-21	28	9-Aug-21	9:21	85	79	84	
18-Aug-21	29	14-Aug-21	9:28	97	113	100	
24-Aug-21	19	20-Aug-21	9:11	89	95	93	

14:37

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

T		
Table	4-5	

30-Aug-21

Average

(Range)

15

26

<u>(15</u> – 38)

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

54

62

85

(54 - 113)

	24-hour		1-hour TSP (μg/m ³)			
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
6-Aug-21	47	3-Aug-21	13:08	79	84	88
12-Aug-21	33	9-Aug-21	9:51	77	75	79
18-Aug-21	38	14-Aug-21	9:21	107	113	102
24-Aug-21	19	20-Aug-21	9:19	98	106	110
30-Aug-21	23	26-Aug-21	14:22	52	56	63
Average (Range)	32 (19 - 47)	Average (Range)		86 (52 – 113)		

Table 4-6	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)
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	24-hour		g/m ³)				
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
6-Aug-21	18	3-Aug-21	13:19	75	83	81	
12-Aug-21	20	9-Aug-21	13:48	76	73	68	
18-Aug-21	11	14-Aug-21	9:18	88	74	80	
24-Aug-21	15	20-Aug-21	13:34	85	91	86	
30-Aug-21	11	26-Aug-21	13:51	54	59	65	
Average	15	Average			76		
(Range)	(11 – 20)	(Range	(Range)		(54 - 91)		

- 4.2.2 As shown in *Tables 4-1 to 4-6*, all the 1-hour TSP and 24-hour TSP monitoring results in the Reporting Period were below the Action and Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.
- 4.2.3 The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5. CONSTRUCTION NOISE MONITORING

GENERAL

- 5.1.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations NMS2 and NMS3 and the additional monitoring locations NMS4a, NMS5, NMS6, NMS7 and NMS8. No monitoring was conducted at the designated monitoring locations NMS1 since they are the planned NSR and still under the construction.
- 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.
- 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 **28** 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	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7
3-Aug-21	60	55	62	55	57	63
9-Aug-21	63	64	65	65	66	66
20-Aug-21	64	68	70	70	69	70
26-Aug-21	64	63	69	66	65	69
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}			75 dB(A)		

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

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

Table 5 Ta Summary of Construction Roise Monitoring Results for Contract 1					
Co	Construction Noise Level (L _{eq30min}), dB(A)				
Date	NMS8				
5-Aug-21	69				
11-Aug-21	61				
17-Aug-21	64				
23-Aug-21	63				
Limit Level	75 dB(A)				

5.2.2 For the additional noise monitoring under Contract 3, a total of **12** events noise measurements were performed for the Contract. The noise monitoring results are summarized in *Tables 5-2*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

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

	Construction Noise Level (L _{eq30min}), dB(A)							
Date	Date CN1 CN2 CN3							
5-Aug-21	64	65	66					
11-Aug-21	63	66	66					
17-Aug-21	59	61	68					
23-Aug-21	63	64	63					
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}	70 dB(A) ^{Note 1} / 65	75 dB(A)					



F

		$dB(A)^{Note 1}$	
Note 1:	Noise Limit Levels for school is	70dB(A) and should be reduced	ced 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.

Type of	Cont	ract 1	Cont	tract 2	Contract 3		Contract 5	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Total generated Inert C&D Materials ('000m ³) (#)	32.172	-	0.06	-	5.846	-	0.04	-
Hard Rock and Large Broken Concrete ('000m ³)	0	-	0	_	0	-	0	-
Reused in this Contract (Inert) ('000m ³)	9.886	-	0	-	0	-	0	-
Reused in other Projects (Inert) ('000m ³)	20.257	*	0	-	0	-	0	-
Disposal as Public Fill (Inert) ('000m ³)	2.029	TKO 137	0.06	TKO 137	5.846	TKO 137	0.04	TKO 137

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

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

(*) Approved alternative disposal ground.



	Cont	ract 1	Cont	tract 2	Cont	ract 3	Cont	ract 5
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Recycled								
Metal	0	-	0	-	0	-	0	-
(*000kg)								
Recycled								
Paper /								
Cardboard	0	-	0	-	0	-	0	-
Packing								
('000kg)								
Recycled						Licensed		
Plastic	0	-	0	-	0.308		0	-
('000kg)						collector		
Chemical								
Wastes	0	-	0	-	0	-	0	-
('000kg)								
General								
Refuses	0	SENT	0.06	SENT	0.066	SENT	0.10	SENT
(*000m ³)								

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



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 1

7.2.1 In the Reporting Period, joint site inspections for Contract 1 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 5, 10, 17, 24 and 31 August 2021 in which IEC joined the site inspection with SSEMC on 5 August 2021. No non-compliance was noted. The findings / deficiencies of *Contract 1* that observed during the weekly site inspection are listed in *Table 7-1*.

Date	Findings / Deficiencies	Follow-Up Status
5 August 2021	 Proper cover should be provided for the dump truck before leaving from site. (Po Lam Road) Mitigation measure should be provided for the pond water cumulated on-site after rainstorm to prevent overflow to other construction site. (Q2) 	 Cover is provided for dump truck when leaving the site. Mitigation measure has undertaken and the ponding water is clear from site area.
10 August 2021	 Extracted underground soil and construction waste was observed at East Portal. The Contractor was advised to remove it or cover it with tarpaulin cover. The Contractor was reminded to treat rainwater within site area before discharge. 	 Stock pile and construction waste at East Portal has removed. Reminder only.
17 August 2021	 Generator without NRMM label was observed at PTT. The Contractor was advised to provide NRMM label. The Contractor was reminded to dispose construction waste regularly within site area. 	 NRMM label is provided for generator at PTT. Reminder only.
24 August 2021	• The Contractor was reminded to treat storm water prior to discharge.	Reminder only.
31 August 2021	 The Contractor was reminded to treat rainwater within site area prior to discharge. The Contractor was reminded to dispose general refuse and construction waste regularly at Reservoir. 	Reminder onlyReminder only

Table 7-1Site Observations of Contract 1

Contract 2

7.2.2 In the Reporting Period, joint site inspections for Contract 2 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 4, 11, 19 and 25 August 2021 in which IEC joined the site inspection with SSEMC on 19 August 2021. No non-compliance was noted. The findings / deficiencies of *Contract 2* that observed during the weekly site inspection are listed in *Table 7-2*.

Table 7-2Site Observations of Contract 2

Date	Findings / Deficiencies	Follow-Up Status
4 August 2021	• Sediment was observed at public u-channel	Sediment at public



Monthly Environmental Monitoring & Audit Report (August 2021)

Date	Findings / Deficiencies	Follow-Up Status
	at portion 1. The Contractor was advised to clear it as soon as possible at portion 1.The Contractor was reminded to dispose construction waste regularly at portion 1	u-channel at portion 1 was removedReminder only
11 August 2021	 Empty cement bags was observed on the ground at portion 2. The Contractor was advised to dispose it regularly. The Contractor was reminded to maintain the sedimentation tank at portion 2 regularly. 	 Empty cement bags were disposed properly. Reminded only.
19 August 2021	 Accumulated sediment at drainage channel should be removed. (Portion 2) The Contractor was reminded to dispose general refuse stored on site regularly. 	Sediment at the channel was removed.
25 August 2021	• No adverse environmental issue was observed.	• NA

Contract 3

7.2.3 In the Reporting Period, joint site inspections for Contract 3 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 6, 13, 20 and 27 August 2021 in which IEC joined the site inspection with SSEMC on 6 August 2021. No non-compliance was noted. The findings / deficiencies of Contract 3 that observed during the weekly site inspection are listed in *Table 7-3*

Table 7-3 **Site Observations of Contract 3**

Date	Findings / Deficiencies	Follow-Up Status	
6 August 2021	• No adverse environmental issue was observed.	• NA	
13 August 2021	• No adverse environmental issue was observed.	• NA	
20 August 2021	• The Contractor was reminded to enhance house-keeping at E8	• Reminder only	
27 August 2021	 Chemical container without drip tray was observed at System A. The Contractor was advised to provide drip tray to avoid chemical leakage. The Contractor was reminded to dispose construction waste regularly at System A 	 Chemical container was removed from site area. Reminder only. 	

Contract 5

7.2.4 In the Reporting Period, joint site inspections for Contract 5 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 5, 12, 19 and 24 August 2021 in which IEC joined the site inspection with SSEMC on 24 August 2021. No non-compliance was noted. The findings / deficiencies of Contract 5 that observed during the weekly site inspection are listed in *Table 7-4*

Table 7-4 **Site Observations of Contract 5**

Date	Findings / Deficiencies	Follow-Up Status
5 August 2021	• No adverse environmental issue was observed	• NA
	• The Contractor was reminded to clean stagnant water regularly at E5.	• Reminder only.
	• The Contractor was reminded to dispose	Reminder only



Monthly Environmental Monitoring & Audit Report (August 2021)

Date	Findings / Deficiencies	Follow-Up Status
	general refuse regularly at E6	
12 August 2021	• No adverse environmental issue was observed.	• NA
	• The Contractor was reminded to ensure all wastewater generated on site are properly treated prior to discharge.	• Reminder only
	• The Contractor was reminded to dispose general refuse stored on site regularly.	• Reminder only
19 August	• No adverse environmental issue was	• NA
2021	observed.	
	• The Contractor was reminded to dispose construction waste regularly at E6	Reminded only
24 August 2021	• Retained tree without tree protection zone was observed at E5. The Contractor was advised to provide tree protection measures.	• Tree protection zone has properly implemented at E5
	• Soil and waste accumulation was observed in the u-channel at E7. The Contractor was advised to clear u-channel to avoid potential overflow.	 Waste accumulation in U-channel at E7 is removed.



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 and Investigation Reports issued in the Reporting Period are 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*.

Donouting Douted	Contract	Enviro	nmental Comp	laint Statistics
Reporting Period	no.	Frequency	Cumulative	Complaint Nature
1 Apr 2017 – 31 July 2021	1	0	50	Dust, Noise and light nuisance
21 Mar 2017 – 31 July 2021	2	0	10	Noise
31 May 2018 – 31 July 2021	3	0	8	Waste Management, Noise, Water Quality
30 Mar 2021 – 31 July 2021	5	0	0	NA
	1	0	50	NA
1 21 August 2021	2	0	10	NA
1 – 31 August 2021	3	0	8	NA
	5	0	0	NA

Table 8-1Statistical Summary of Environmental Complaints

Table 8-2Statistical Summary of Environmental Summons

Departing Devied	Contract	Environmental Summons Statistics			
Reporting Period	no.	Frequency	Cumulative	Summons Nature	
1 Apr 2017 – 31 July 2021	1	0	0	NA	
21 Mar 2017 – 31 July 2021	2	0	0	NA	
31 May 2018 – 31 July 2021	3	0	0	NA	
30 Mar 2021 – 31 July 2021	5	0	0	NA	
	1	0	0	NA	
1 21 August 2021	2	0	0	NA	
1 – 31 August 2021	3	0	0	NA	
	5	0	0	NA	

Table 8-3	Statistical Summary of Environmental Prosecution
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Departing Davied	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
1 Apr 2017 – 31 July 2021	1	0	0	NA
21 Mar 2017 – 31 July 2021	2	0	0	NA
31 May 2018 – 31 July 2021	3	0	0	NA
30 Mar 2021 – 31 July 2021	5	0	0	NA
	1	0	0	NA
1 21 August 2021	2	0	0	NA
1 – 31 August 2021	3	0	0	NA
	5	0	0	NA



9. IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.1 GENERAL REQUIREMENTS

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

14010 9-1	Environmental witigation measures
Issues	Environmental Mitigation Measures
Water Quality	 Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge. Replace silt curtain materials if necessary
Air Quality	 Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site All vehicles must use wheel washing facility before off site Sprayed water during breaking works
Noise	 Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used.
Waste and Chemical Management	 On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal
General	The site was generally kept tidy and clean.

 Table 9-1
 Environmental Mitigation Measures

9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

9.2.1 Construction activities for Contract 1 in the coming month are listed below:

East Portal Area:

- Soil Nailing works at slope A1
- Construction of RWA1B retaining wall, rebar the base slab and Rock cu slope A1.

Underpass Tunnel:

• Erection and installation of the VE Panel sub-frame.

Po Lam Road

- Excavation work in progress to install ducting pipes and draw pits and installation of k1 kerb
- Removal the existing concrete pavement in progress for installation of ducting crossing pipes.
- Reinstated the concrete carriageway at Po Lam road and rebuilt the gully.
- Install the beam barrier at Po Lam Road Layby.

Underground Stormwater Retention Tank (USRT):



- Backfill work
- ABWF and E&M Works at Water Pumping Station in progress
- Mass concrete fill works

Water Reservoir:

- The excavation works of VC chambers (Watermain) and construction of valve chamber
- Rock trench excavation for watermain and utilities along WSD access road.
- Construction of downpipe from reservoir to PPT.

Artificial Flood Attenuation Lake:

- East side and west side of concrete lining at Lake bottom complete. Remaining work.
- Laying granular bed at remaining parts (center) of Lake Bottom.
- To continue laying HDPE membrane and mesh wire at remaining part (center of Lake Bottom.
- Retaining wall base slab 51 out of 52 and stem wall 50 out of 52 complete, the construction of remaining base slab and stem wall.
- To continue with the drainage works.
- Construction wall of eastern landing.

Pedestrian Connectivity System B (PC System B):

Internal ABWF works in System B

Construction of Internal Road L1:

- Road breaking for road L1 west.
- Drainage works for road L1 east cycle track.
- Watermain construction
- Road L1 west lower level and middle level drainage construction
- Construction of Infiltration Planter.
- 9.2.2 Construction activities for Contract 2 in the coming month are listed below:
 - Temporary Traffic Arrangement (TTA)
 - Soil Nail Construction
 - Mass Concrete construction
 - Formwork and Falsework installation and dismantling
 - Lifting Tower Construction
 - Rebar fixing

9.2.3 Construction activities for Contract 3 in the coming month are listed below:

Pedestrian Connectivity Facility E8 (PC-E8)

- Escalator installation / testing at 14nos escalators.
- Steel roof installation.
- Pedestrian Connectivity Facility E11 (PC-E11)
- Construction of lift tower LT1 & ST1 at PC1.
- Construction of sum pit at PC1.
- Construction of lift tower LT2 & ST2 at PC6.
- Installation of steel frame of FB2, FB3 & FB4.

Pedestrian Connectivity Facility System A (PC-SYA)

• Construction of RC structure at SyA-LT1, LT2 and ST1.

Pedestrian Connectivity Facility System B (PC-SYB)

- Construction of RC structure at PC8 and PC7.
- Pile construction at PC2.
- Site formation works for PC4, PC5 & PC6; and
- Install sheet pile at PC1

<u>Tseung Kwan O Bus – Bus Interchange New Public Toilet (BBI-Toilet)</u>

Carry-out outstanding works and additional works under PM's instruction.



9.2.4 Construction activities for Contract 5 in the coming month are listed below:

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Portion 1
• Form piling platform
Portion 2
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• Piling Works

- Portion 3
- Diversion of Existing Staircase
- Form piling platform

Portion 4

- Excavation of lift tower footing
- Pre-drill and install piezometer at E10-E12

9.3 KEY ISSUES FOR THE COMING MONTH

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



10. CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

- 10.1.1 This is 53rd monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to 31 August 2021.
- 10.1.2 No 24-hour or 1-hour TSP monitoring and noise monitoring results that triggered the Action or Limit Levels were recorded. No NOEs or the associated corrective actions were therefore issued.
- 10.1.3 In the Reporting Period, no environmental complaints was recorded for the Project.
- 10.1.4 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 1, 2, 3 and 5 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

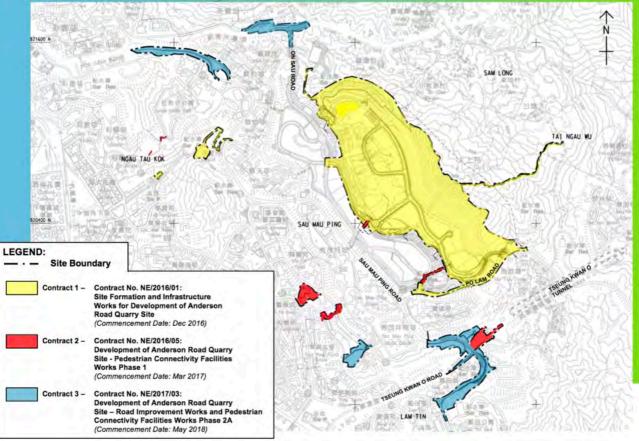
- 10.2.1 During wet season, the Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should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



Appendix A

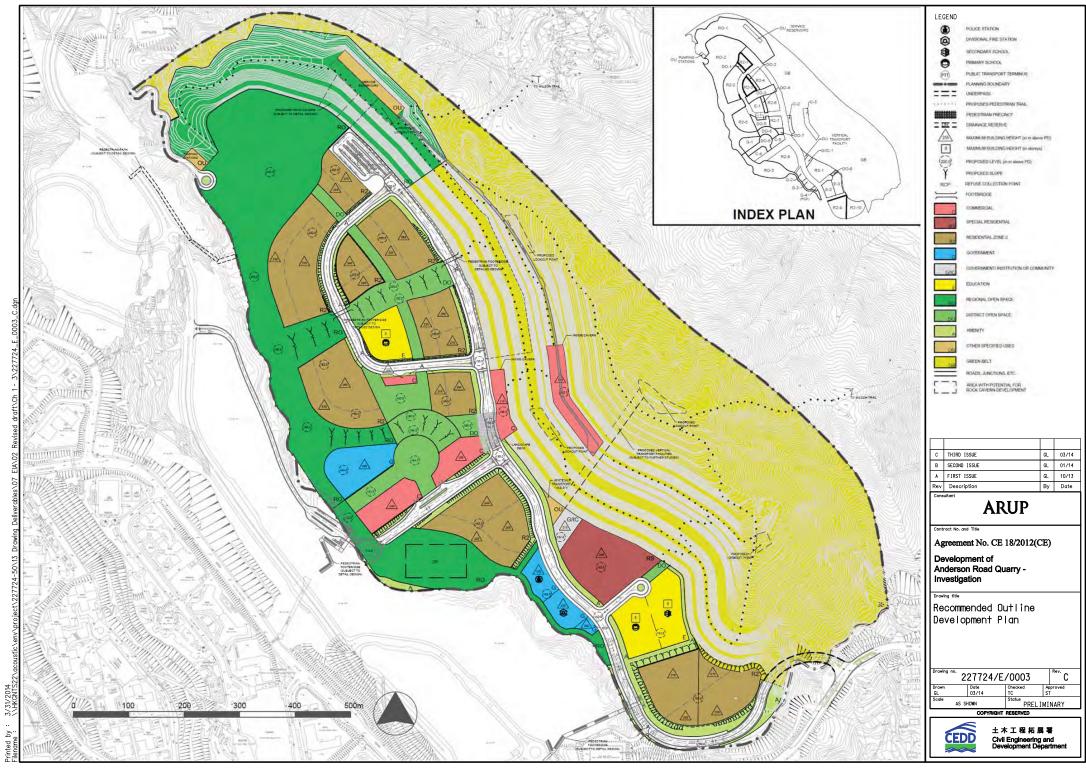
Layout plan of the Project

Contract Packages





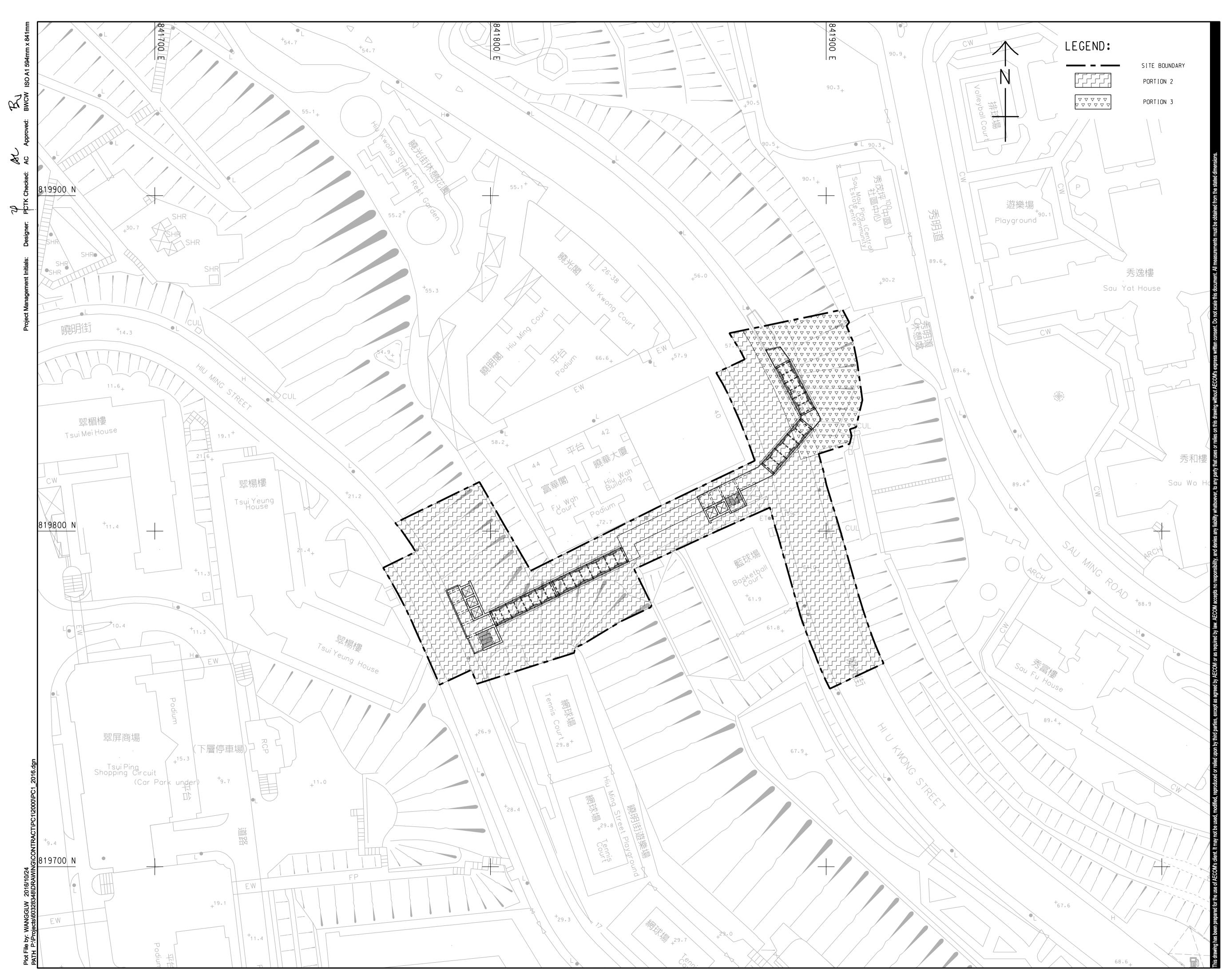
Layout plan of Contract 1 (NE/2016/01)



Printed by



Layout plan of Contract 2 (NE/2016/05)





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



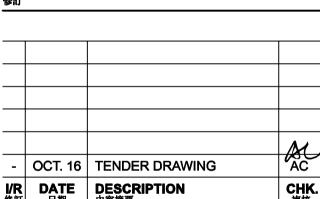
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STATUS 階段

SCALE 比例

A1 1 : 500

KEY PLAN A1 1 : 60000 索引圖

NGAU TAU KOK

SHEET NUMBER 岡紙編號

CONTRACT NO. ^{合約編號}

TSUI LAM

DIMENSION UNIT ^{尺寸單位}

METRES

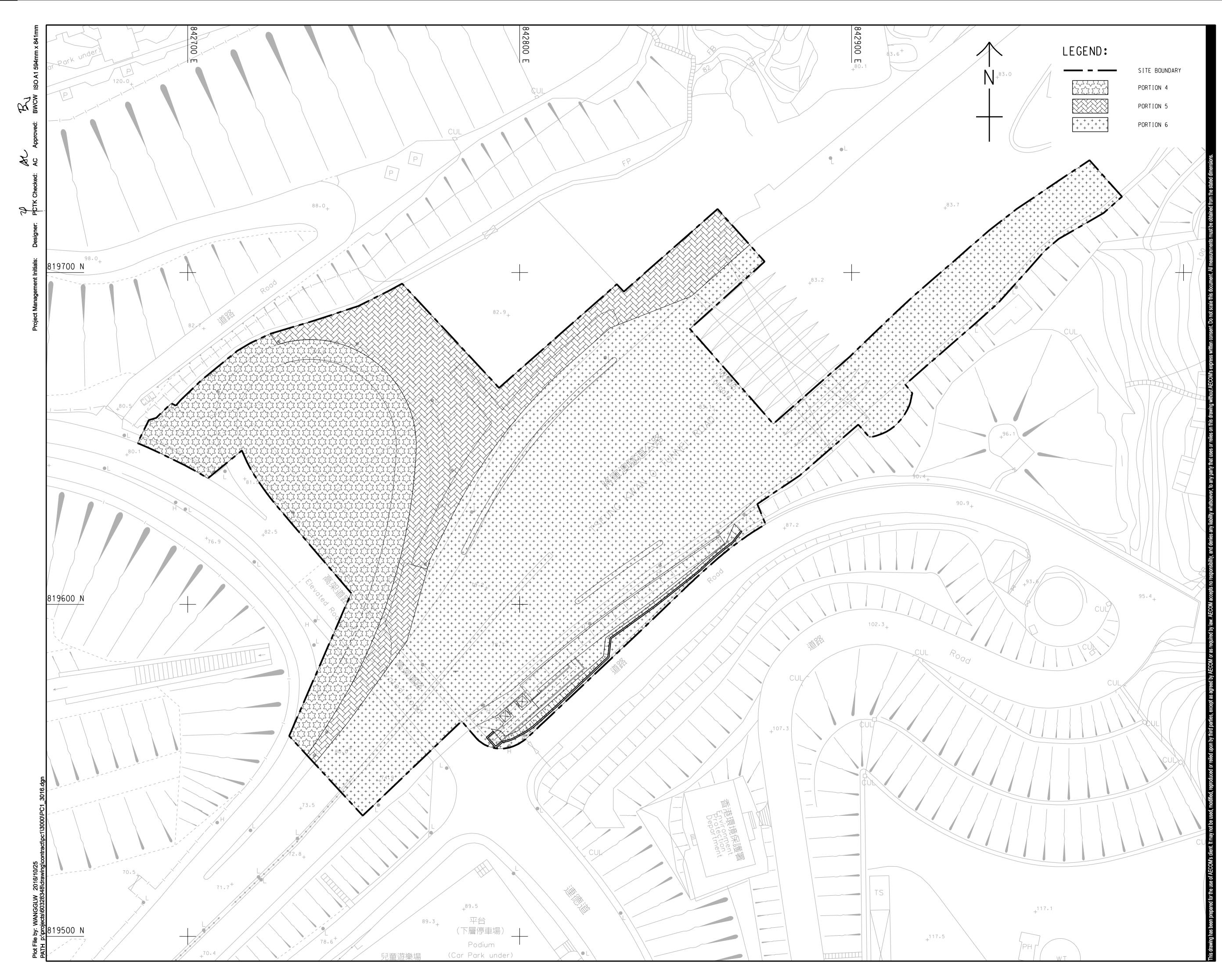
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PROJECT NO. _{項目編}號

NE/2016/05 SHEET TITLE 圖紙名稱

E2-C1-E3 - PORTION OF SITE

60328348/PC1/2016





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主

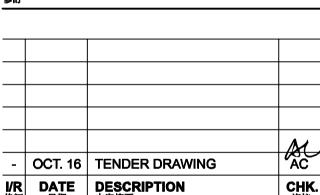


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SCALE _{比例}

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DIMENSION UNIT 尺寸單位

METRES

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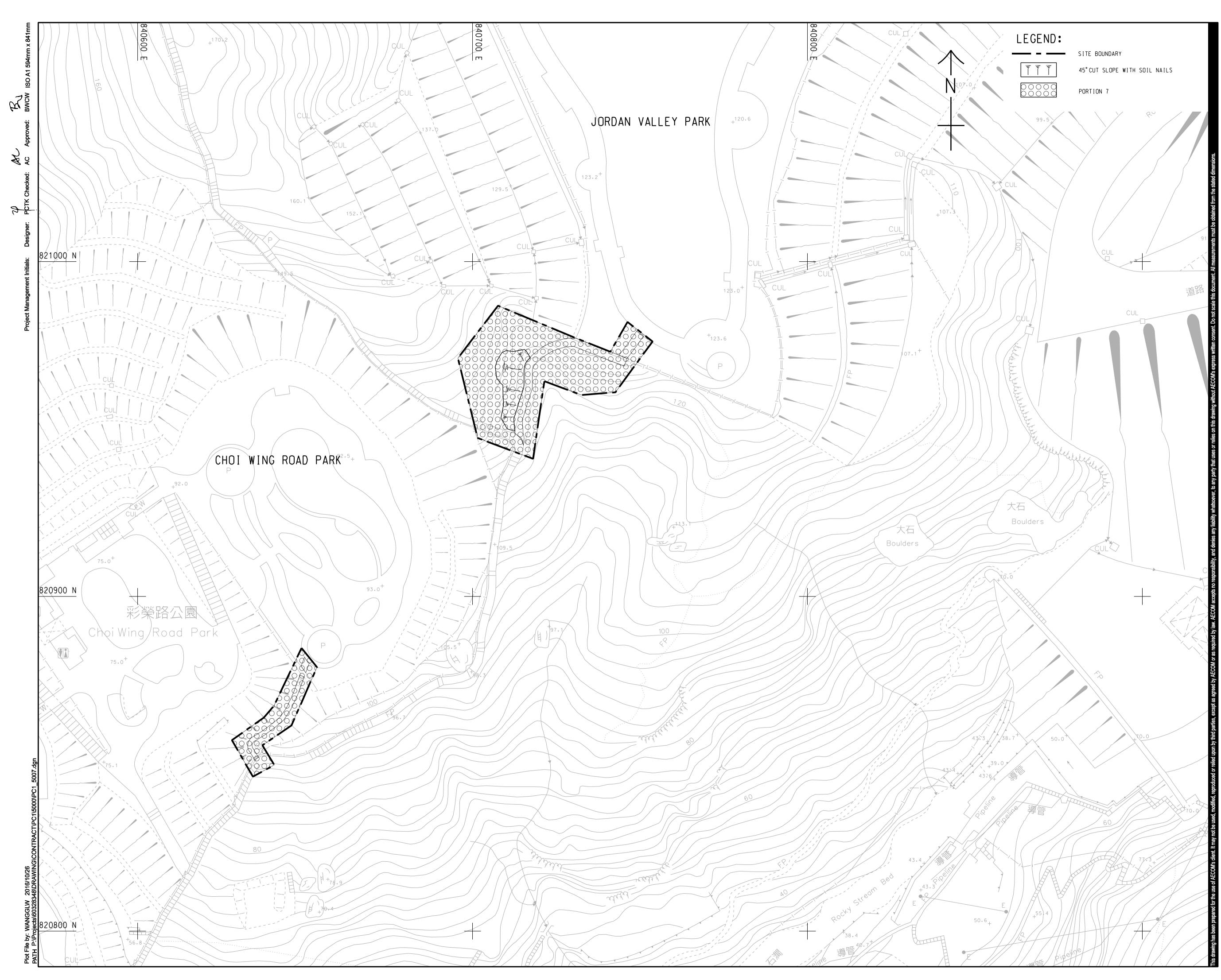
SHEET TITLE 圖紙名稱

PROJECT NO. 項目編號

NE/2016/05

E12 AND BBI - PORTION OF SITE

SHEET NUMBER ^{國紙編號}





PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



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DIMENSION UNIT 尺寸單位

METRES

LAMTIN

CONTRACT NO. ^{合約編號}

NE/2016/05

STATUS 階段

SCALE 比例

A1 1 : 500

NGAU CHT WAN

KOWLOON BAY

PROJECT NO. ^{項目編}號

SHEET TITLE 圖紙名稱

60328348

KEY PLAN A1 1 : 60000 家引圖

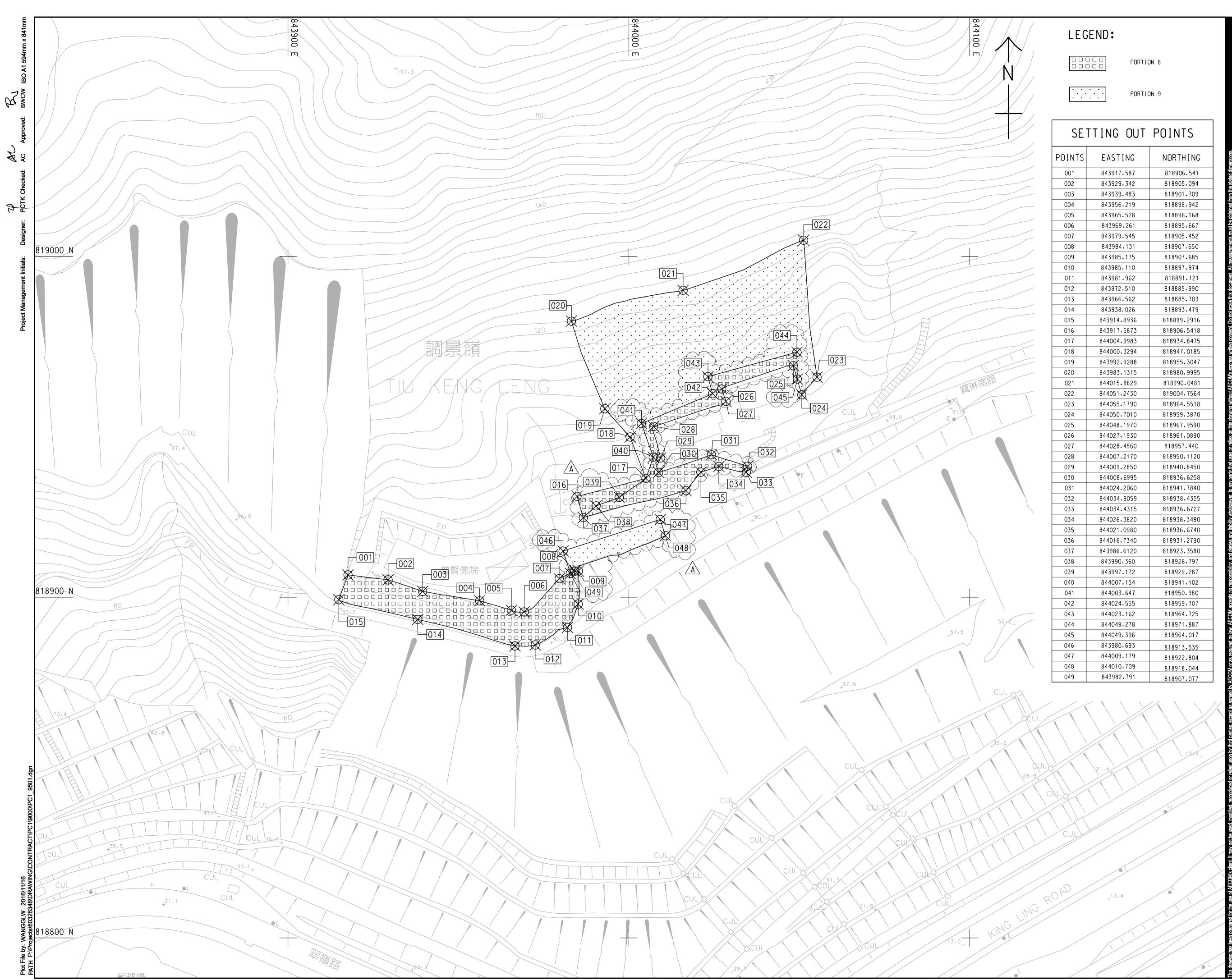
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KWUN TONG

GREEN ROUTE - PORTION OF SITE

SHEET NUMBER 圖紙編號

60328348/PC1/5007





SE	ITING UUT	PUINIS
OINTS	EASTING	NORTHING
001	843917.587	818906.541
002	843929.342	818905.094
003	843939.483	818901.709
004	843956.219	818898.942
005	843965.528	818896.168
006	843969.261	818895.667
007	843979.545	818905.452
008	843984.131	818907.650
009	843985.175	818907.685
010	843985.110	818897.974
011	843981.962	818891.121
012	843972.510	818885.990
013	843966.562	818885.703
014	843938.026	818893.479
015	843914.8936	818899.2916
015		
	843917.5873	818906.5418
017	844004.9983	818934.8475
018	844000.3294	818947.0185
019	843992.9288	818955.3047
020	843983.1315	818980.9995
021	844015.8829	818990.0481
022	844051.2430	819004.7564
023	844055.1790	818964.5518
024	844050.7010	818959.3870
025	844048.1970	818967.9590
026	844027.1930	818961.0890
027	844028.4560	818957.440
028	844007.2170	818950.1120
029	844009.2850	818940.8450
030	844008.6995	818936.6258
031	844024.2060	818941.7840
032	844034.8059	818938.4355
033	844034.4315	818936.6727
034	844026.3820	818938.3480
035	844021.0980	818936.6740
036	844016.7340	818931.2790
037	843986.6120	818923.3580
038	843990.360	818926.797
039	843997.172	818929.287
040	844007.154	818941.102
041	844003.647	818950.980
042	844024.555	818959.707
043	844023.162	818964.725
044	844049.278	818971.887
045	844049.396	818964.017
046	843980.693	818913.535
047	844009.179	
048	844010.709	818922.804
049	843982.791	818918.044



PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT _{業主}



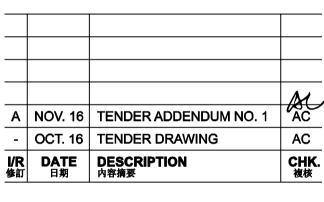
た木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



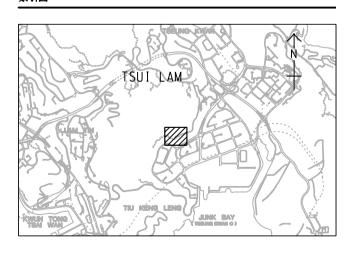
STATUS 階段

SCALE 比例



DIMENSION UNIT ^{尺寸單位} METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

CONTRACT NO. ^{合約編號}

60328348

NE/2016/05

SHEET TITLE 圖紙名稱

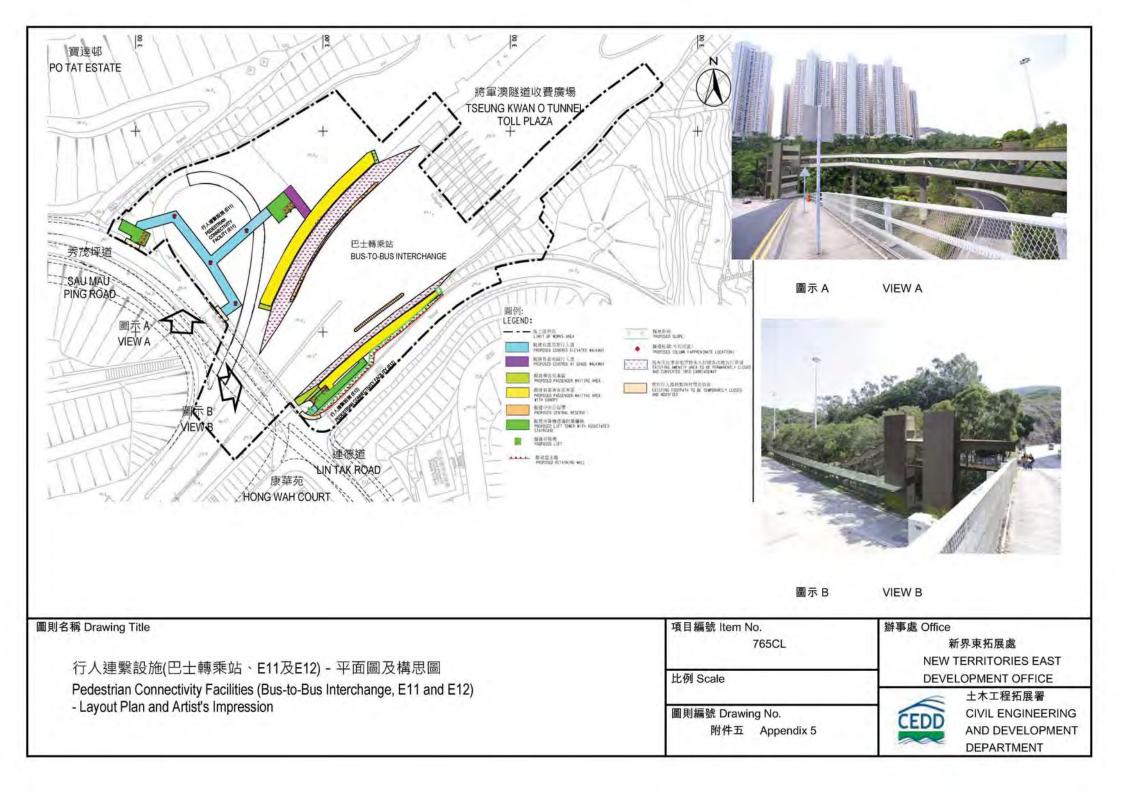
INFRASTRUCTURAL WORKS AT PO LAM ROAD SOUTH TIU KENG LENG – PORTION OF SITE

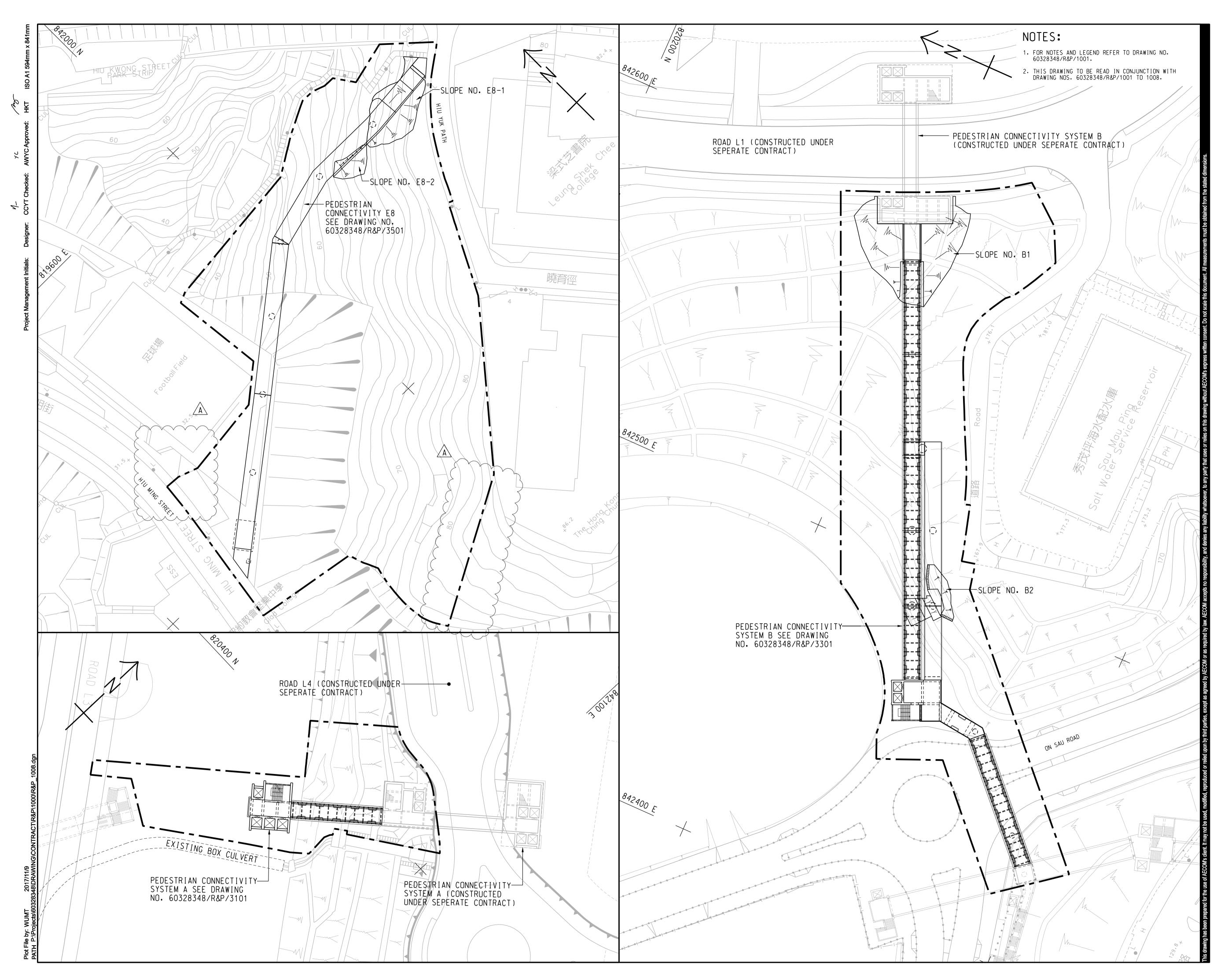
SHEET NUMBER 圖紙編號

60328348/PC1/9501A



Layout plan of Contract 3 (NE/2017/03) (Non-Designated Area)







PROJECT ^{項目}

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

CONTRACT TITLE DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - ROAD IMPROVEMENT WORKS AND PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 2A CLIENT _{業主}



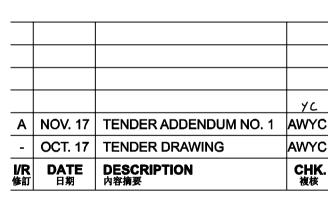
全林工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



STATUS ^{階段}

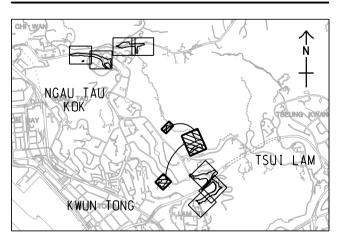
SCALE 比例

A1 1 : 500

DIMENSION UNIT _{尺寸單位}

METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

SHEET 8 OF 8

60328348

SHEET TITLE 圖紙名稱

SHEET NUMBER 圖紙編號

60328348/R&P/1008A

CONTRACT NO. ^{合約編}號

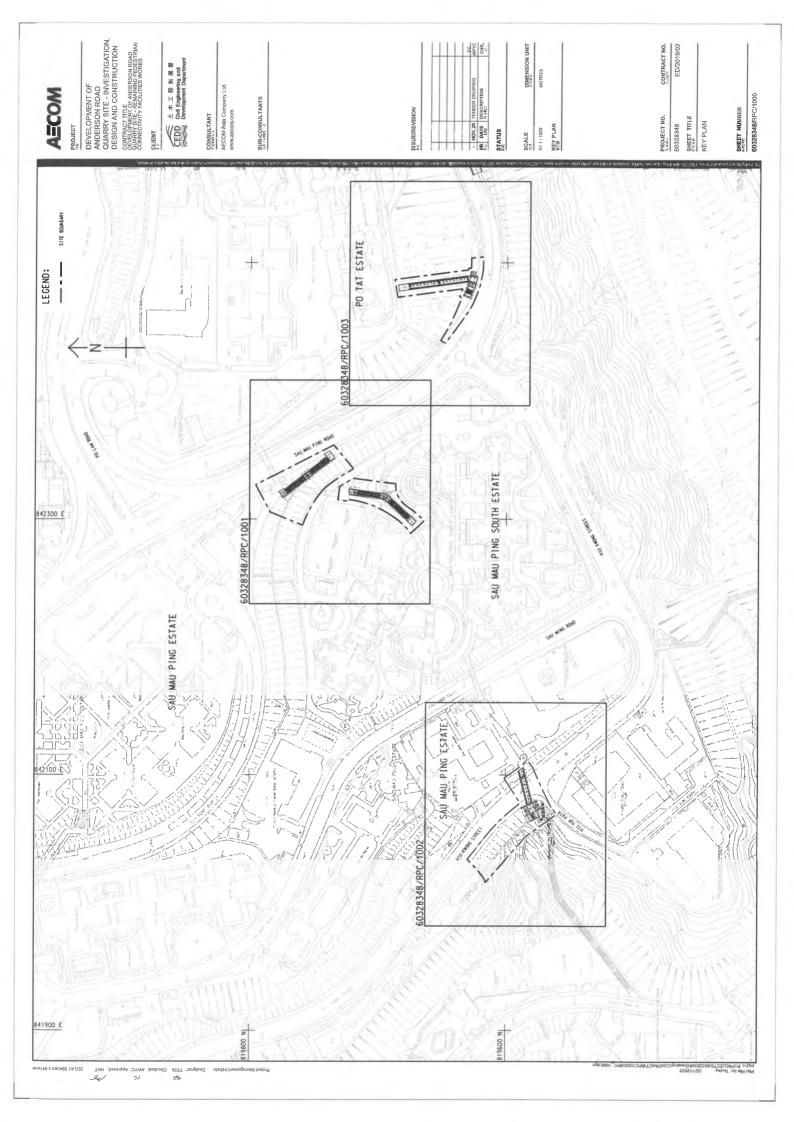
NE/2017/03

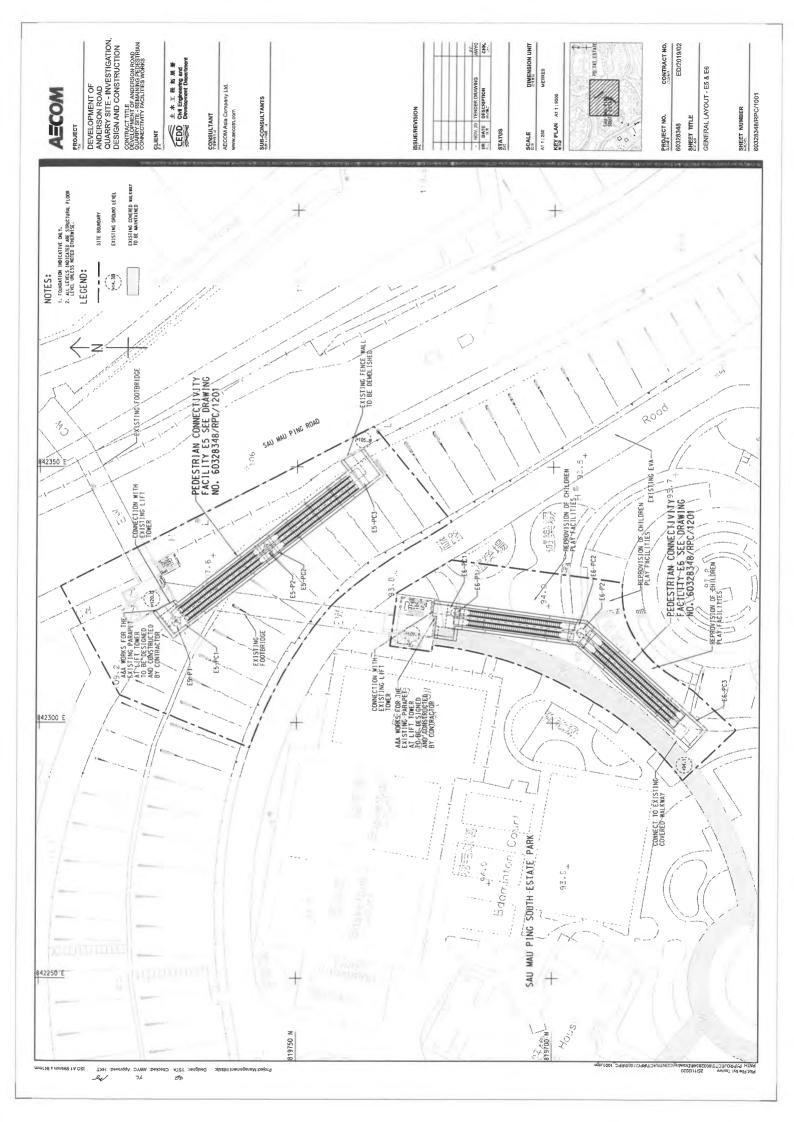
GENERAL LAYOUT

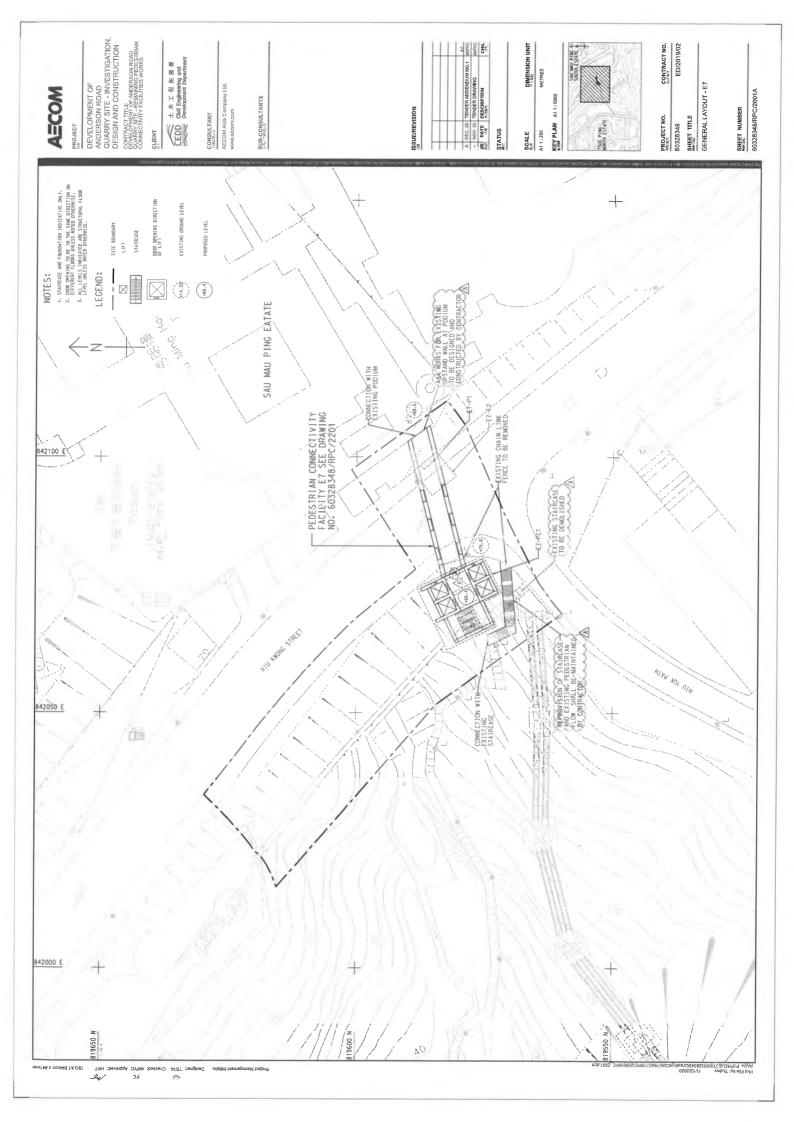


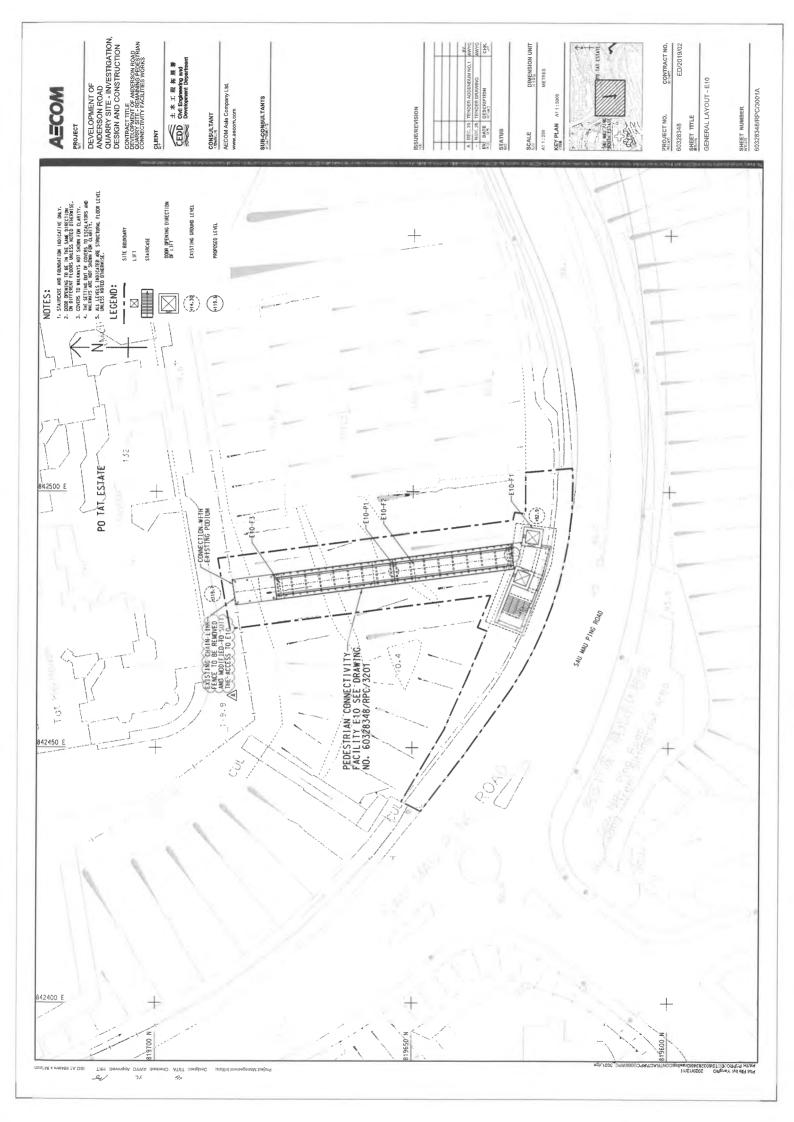
Layout plan of Contract 5 (ED/2019/02)

 $Z: Jobs \\ 2016 \\ TCS00864 \\ (CEDD) \\ 600 \\ EM\&A Report \\ Submission \\ Monthly \\ EM\&A \\ Report \\ 2021 \\ August \\ 2021 \\ R0495v \\ 2.docx \\$









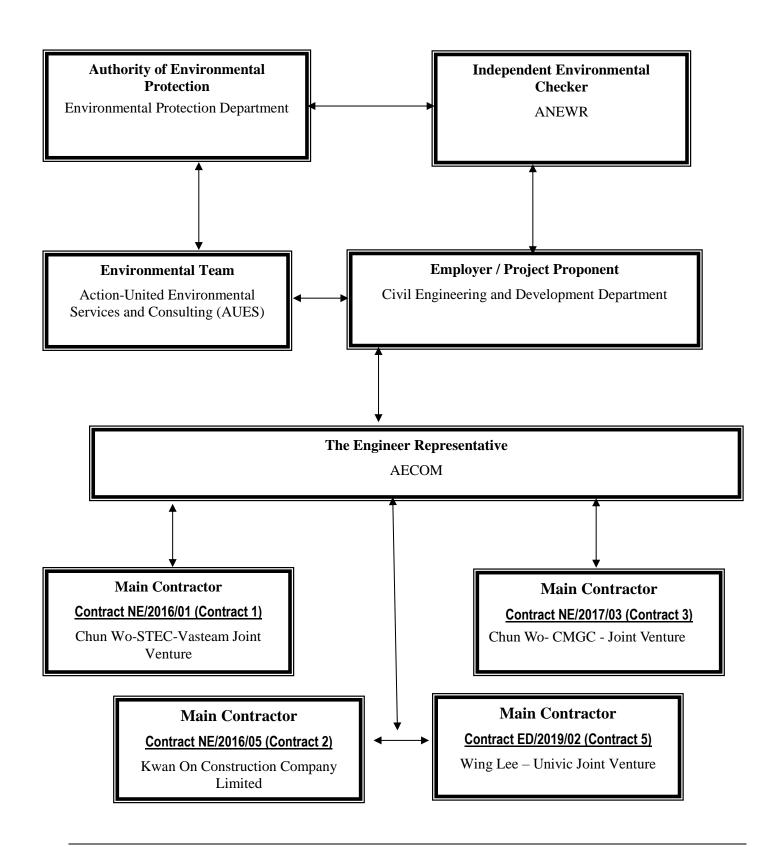


Appendix B

Project Organization Structure



Project Organization Structure





Contact Details of Key Personnel for Contract 1 – NE/2016/01

AUES

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CSVJV (Main Contractor) – Chun Wo-STEC-Vasteam Joint Venture

ANEWR (IEC) – ANewR Consulting Limited



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	S W Lam, Sam	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Bill Hon	5599 1466	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
KOCCL	Project Director	Ambrose Kwong	2889 2675	2558 6900
KOCCL	Site Agent	Mr. Albert PK Ng	9150 1523	2558 6900
KOCCL	Safety and Environmental Manager	Joly C K Kwong	6111 5711	2558 6900
KOCCL	Environmental Officer	To be Confirmed	-	-
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

Contact Details of Key Personnel for Contract 2 – NE/2016/05

Legend:

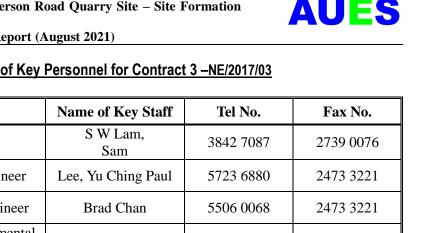
CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

KOCCL (Main Contractor) –Kwan On Construction Company Limited

ANEWR (IEC) – ANewR Consulting Limited

Project Role



Contact Details of Key Personnel for Contract 3 - NE/2017/03

CEDD Engineer AECOM **Chief Resident Engineer** AECOM Senior Resident Engineer Independent Environmental ANEWR James Choi 2618 2836 3007 8648 Checker CW – CMGC - JV **Construction Manager** 3965 9900 William Leung 9464 1392 CW – CMGC - JV 9801 9974 3965 9900 Site Agent Chris Lam CW – CMGC - JV **Environmental Officer** 9570 6187 3965 9900 King Lam CW – CMGC - JV **Environmental Supervisor** Anna Tsang 9333 8499 3965 9900 AUES T. W. Tam 2959 6079 Environmental Team Leader 2959 6059 AUES **Environmental Consultant** Nicola Hon 2959 6059 2959 6079 AUES **Environmental Consultant** Ben Tam 2959 6059 2959 6079

Legend:

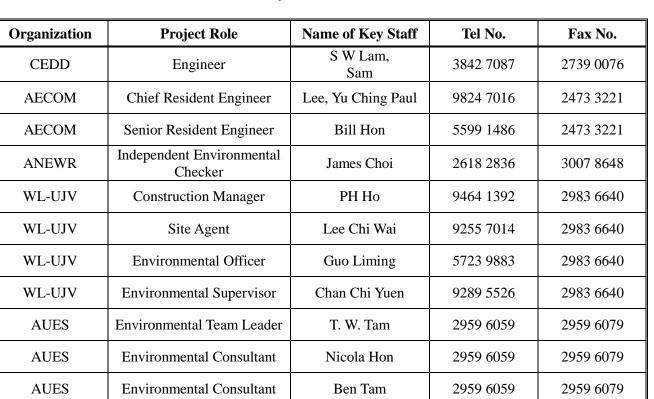
Organization

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CW – CMGC - JV (Main Contractor) – Chun Wo- CMGC - Joint Venture

ANEWR (IEC) – ANewR Consulting Limited



Contact Details of Key Personnel for Contract 5 - ED/2019/02

AUES

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

WL-UJV (Main Contractor) - Wing Lee - Univic Joint Venture

ANEWR (IEC) – ANewR Consulting Limited



Appendix C

Construction Programme

- (a) Contract 1 (NE/2016/01)
- (b) Contract 2 (NE/2016/05)
- (c) Contract 3 (NE/2017/03)
- (d) Contract 5 (ED/2019/02)



Contract 1 (NE/2016/01)

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俊和-上隧-浩隆聨營	

CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

	図 和 ー 上) 透 ー 洽 Y座 研 宮 CHUN WO - STEC - VASTEAM JOINT VENTURE					3-N	MONTH	ROLLING PROC		
ctivity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish	Jul	Qtr 3, 2021 Aug	Sep
Anderson Rd	Sub-programme (August 2021) _ccn _210811									
Fresh Water Pun	nping Station									
Stage 5 - ABWF	; Finishing & E&M									
FWP-1320	Pumping Station E&M works	0			355	29-Jun-20 A	04-Sep-21			Pumping Station E&M works
Salt Water Reser	voir									
ABWF, Finishin	ng & E&M									
SWR-1410	Saltwater Reservior ABWF & Finishing	0			549	18-Feb-20 A	20-Dec-21			
SWR-1420	Saltwater Reservior E&M works	0			478	29-May-20 A	04-Jan-22			
Fresh Water Res	ervoir									
ABWF, Finishin	ng & E&M									
FWR-2000	Freshwater Reservior E&M works	0			330	12-Oct-20 A	19-Nov-21			
RWS Access Ro	ad & External Works									
FWP-1400	Formation & Slope RWA13 works	0			453	16-May-20 A	19-Nov-21			
FWP-1410	Watermain (DN600 & DN450) & Irrigation System along WSA access road	0			453	16-May-20 A	19-Nov-21			
FWP-1420	Drainage (sewerage & surface) along WSA access road	0			391	30-Jul-20 A	19-Nov-21			
FWP-1430	CLP power supply duct	0			350	16-Sep-20 A	19-Nov-21			
Pedestrian Conn	nection System A & B									
PC system B										
PCB-1090	System B - Backfill south tower	81	19-Aug-19	23-Nov-19	445	16-Feb-20 A	16-Aug-21		Syster	n B - Backfill south tower
PCB-1100	System B - Backfill north tower	81	19-Aug-19	23-Nov-19	445	16-Feb-20 A	16-Aug-21		Syster	n B - Backfill north tower
PCB-1120	System B - E&M	22	23-Sep-19	19-Oct-19	362	05-Jun-20 A	21-Aug-21			□ System B - E&M
PCB-1130	System B - E&M T&C	24	21-Oct-19	16-Nov-19	148	02-Mar-21 A	28-Aug-21			System B - E&M T&C
PCB-1140	System B - Lift installation	75	21-Oct-19	18-Jan-20	162	02-Mar-21 A	14-Sep-21			System B - Lift ins
PCB-1150	System B - Lift T&C	27	20-Jan-20	22-Feb-20	27	15-Sep-21	19-Oct-21	_		
PCB-1160	System B - Submission of form 5 & EMSD instaction	18	24-Feb-20	14-Mar-20	18	20-Oct-21	09-Nov-21	_		
PCB-1170	System B - Issurance of Uer Permit	6	16-Mar-20	21-Mar-20	6	10-Nov-21	16-Nov-21	_		
PC system A	-									
PCA-1050	B5 - Back Fill Lift Tower (North) upwards Formation Level	0			58	02-Jul-21 A	07-Sep-21			B5 - Back Fill Lift Tower (North) u
PCA-1060	B5 - E&M and BS Works	0			138	02-Jul-21 A	13-Dec-21			
PCA-1150	C1a - Construction of Super Structure of Lift Tower (+175mPD to Roof Level)	0			82	09-Jul-21 A	15-Oct-21			
PCA-1160	C1a - Back Fill Lift Tower (South) up wards Formation Level	0			45	16-Oct-21	07-Dec-21	_		
Artificial Flood A		-								
Construction of										
ART-1990	Art Lake - water testing for bottom of lake	45	28-Feb-20	24-Apr-20	166	02-Mar-21 A	18-Sep-21			Art Lake -
	Art Lake - water testing for bottom or lake	40	20-1-60-20	2474pi-20	100	02-Widi-21A	10-3ep-21			Art Lake -
ART-2050	Art Lake Floating Brdige - backfill	30	01-Nov-19	05-Dec-19	385	16-May-20 A	28-Aug-21			Addition Destine Destine 1. 10
										Art Lake Floating Brdige - backfill
ART-2060	Art Lake Floating Brdige - footing construction	30	06-Dec-19	13-Jan-20	261	11-Jan-21 A	25-Nov-21			
Slot Chamber	Att also. Olet showhar as d. 9. dog to a short to a	10	00 0-10	04 D-+ 40	070	10 14-00 1	04 Aur 04			
ART-2080	Art Lake - Slot chamber no. 1 & stop log chamber	18	09-Dec-19	31-Dec-19	379	16-May-20 A	21-Aug-21			Art Lake - Slot chamber no. 1 & stop log chamber
ART-2090	Art Lake - Slot chamber no. 2 & stop log chamber	26	31-Jan-20	29-Feb-20	160	23-Feb-21 A	04-Sep-21			Art Lake - Slot chamber no. 2 & stop k
ART-2100	Art Lake - Slot chamber no. 3	33	31-Jan-20	09-Mar-20	160	23-Feb-21 A	04-Sep-21			Art Lake - Slot chamber no. 3
Drainage										
ART-2110	Art Lake - Outside bay 38-45	63	04-Nov-19	18-Jan-20	444	02-Mar-20 A	28-Aug-21			Art Lake - Outside bay 38-45
ART-2120	Art Lake - Outside bay 3-8	28	09-Dec-19	13-Jan-20	385	16-May-20 A	28-Aug-21			Art Lake - Outside bay 3-8
ART-2130	Art Lake - Outside bay 9-28	56	21-Nov-19	31-Jan-20	414	07-Apr-20 A	28-Aug-21			Art Lake - Outside bay 9-28
									_	Date
	anned Bar (WP) tual Bar							ling Programm	1e	15-Aug-21 C1-MPU202108
	recast Bar					programme				
				15-Aug-	-21					

		D	
		Page 1 of 3 Qtr 4, 2021	
	o	Qtr 4, 2021 Oct	Nov
ation			
		System B - Lift T&C	
			System E
ards Form	ation Level		
		C1a - Construction of Super Str	ucture of Lift Tower (+175mP
ter testing	for bottom of lake		
hamber			
Revisio	n	Checked	Approved

俊和-上隧-浩隆聯營 CHUN WO - STEC - VASTEAM JOINT VENTURE

CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

	Chun Wo - STEC - VASTEAM JOINT VENTURE							LING PROGRAM			
ctivity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish Jul		Qtr 3, 2021 Aug		Sep
ART-2140	Art Lake - Outside bay 50-52	14	31-Jan-20	15-Feb-20	272	28-Sep-20 A	28-Aug-21			Art Lake - Out	
Treatment Plant											
ART-1620	Treatment plant - Construct the wall(W1,2,3,6,7,8,9,11,12,13,14)	14	10-Dec-19	27-Dec-19	381	11-Jun-20 A	18-Sep-21				Treatment plar
ART-1630	Treatment plant - Backfilling (by course material) to 197.1mPD, 8.2m Depth	30	28-Dec-19	05-Feb-20	231	11-Jan-21 A	21-Oct-21				
Bioretention Sy	stem										
ART-2150	Art Lake - Part 1,2,4	72	01-Feb-20	29-Apr-20	373	13-Jun-20 A	11-Sep-21				Art Lake - Part 1,2,4
ART-2160	Art Lake - Part 3	32	14-Jan-20	22-Feb-20	329	06-Aug-20 A	11-Sep-21				Art Lake - Part 3
ART-2170	Art Lake - Part 6,7,12	16	17-Feb-20	05-Mar-20	327	08-Aug-20 A	11-Sep-21				Art Lake - Part 6,7,12
Underpass Tunn	e										
VE Panels, Roa											
TUN-3540	Tunnel - FS main, Socket & AFA equipment	0			250	19-Oct-20 A	21-Aug-21		T.	nnel - FS main, Socket & /	AFA equipment
TUN-3550	Underpass L1 paving, funiture, marking, signage from East Portal	0			250	19-Oct-20 A	21-Aug-21			derpass L1 paving, funitu	re, marking, signage from East Portal
TUN-3560	Tunnel - E&M 2nd Fix (Lighting & Equipment)	0			250	19-Oct-20 A	21-Aug-21			nnel - E&M 2nd Fix (Lighti	
										derpass ABWF works	ig a Equiprion)
TUN-3570	Underpass ABWF works	0			233	09-Nov-20 A	21-Aug-21				nment connection 9 testing)
TUN-3580	Tunnel - E&M Final Fix (Equipment connection & testing)	0			233	09-Nov-20 A	21-Aug-21			nnei - E&ivi Finai Fix (Equi	pment connection & testing)
TUN-3590	Tunnel - T&C & Statutory inspection	0			63	30-Jun-21 A	11-Sep-21				Tunnel - T&C & Statutory ins
Road L4 (RWA18	3, Noise Barrier, RWA12, Utilities & Road Works)										
Retaining Wall I	RWA12										
L4-3460	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +175	0			105	23-Jun-21 A	27-Oct-21				
L4-3530	L4 (RWA12) - Bay 22 construct wall & backfill upto +170 (after twin 1950 pipe)	0			85	16-Aug-21	25-Nov-21				
L4-3630	L4 (RWA12) - Bay 21 construct wall & backfill upto +170 (after system A sub-way)	0			105	23-Jun-21 A	27-Oct-21				
L4-3640	L4 (RWA12) - Bay 21 construct wall & backfill upto +175	0			85	28-Oct-21	10-Feb-22				
Road Works - D	brainage						1				
L4-4260	L4 (Drainage) - Backfill for water main CH0 to CH200	0			154	02-Mar-21 A	04-Sep-21				L4 (Drainage) - Backfill for water main CH0
L4-4280	L4 (Drainage) - Excavate & lay drain CH250 to CH300	0			172	02-Mar-21 A	27-Sep-21				
L4-4300	L4 (Drainage) - Excavate & lay drain CH350 to CH400	0			172	02-Mar-21 A	27-Sep-21				
L4-4310	L4 (Drainage) - Backfill for water main CH200 to CH400	0			30	28-Sep-21	03-Nov-21				
Watermain & Ut	ilities										
L4-4320	L4 (Watermain & UU) - Constuct watermain & UU CH0 to CH200	0			90	04-Nov-21	23-Feb-22				
L4-4330	L4 (Watermain & UU) - Constuct watermain & UU CH200 to CH400	0			90	04-Nov-21	23-Feb-22				
Retaining Wall R											
RWA9 Bay 13 to											
RWA9-1240	RWA9 - F/W & rebat fixing to Bay 16 wall	0			57	23-Jun-21 A	28-Aug-21			RWA9 - F/W 8	k rebat fixing to Bay 16 wall
	RWA9 - Concrete laying for Bay 16 wall	0			1						oncrete laying for Bay 16 wall
RWA9-1250						30-Aug-21	30-Aug-21				Finite aying for bay to wait
RWA9-1260	RWA9 - F/W & rebat fixing to Bay 13, 14 & 15 wall	0			21	31-Aug-21	24-Sep-21				
RWA9-1270	RWA9 - Concrete laying for Bay 13, 14 & 15 wall	0			4	25-Sep-21	29-Sep-21				
RWA9 Bay 21 &											
RWA9-1400	RWA9 - F/W & rebat fixing to Bay 21 & 22 Wall	0			57	30-Jun-21 A	04-Sep-21				RWA9 - F/W & rebat fixing to Bay 21 & 22
RWA9-1410	RWA9 - Concrete laying for Bay 21 & 22 Wall	0			3	06-Sep-21	08-Sep-21				RWA9 - Concrete laying for Bay 2
Road Works L5,I	L1 east (between Junction L3 & L5)										
Road L1 east pa	art 2 (L5 toward PC system B)										
RL1b-1040	Road L1 east 2 - ducting for Street Lighting	0			492	19-Dec-19 A	18-Aug-21		Road L1	east 2 - ducting for Street	Lighting
RL1b-1050	Road L1 east 2 - Road Pavement	0			408	17-Apr-20 A	28-Aug-21			Road L1 east	2 - Road Pavement
RL1b-1060	Road L1 east 2 - Landscape funiture	0	_		385	13-Jun-20 A	27-Sep-21				
Road L1 east pa	art 3 (Junction L3 toward L5)										
				1				1	I	-	
Pla	anned Bar (WP) 💠 🔷 Planned Milestone (WP)					3-mont	h Rolling P	Programme		Date	C1-MPU202108
				3-month Rolling Programme Anderson Rd Sub-programme						15-Aug-21	U1-1VIF U2U2 100
	tual Bar \blacklozenge \blacklozenge Milestone recast Bar			Anderso	on Rd Sub-r	programme					

			ge 2 of 3		
		Oct	Qtr 4, 2021		Nov
ant -	Cons	truct the wall(W1,2,3,6,7,8,9,11,12,13,		plant - B	ackfilling (by course materia
			- Treatment	piant - Di	acchining (by course materia
spec	tion				
				L4 (RW	/A12) - Bay 17-20 construct
				L4 (RW	/A12) - Bay 21 construct wa
		0 Jrainage) - Excavate & lay drain CH250 Jrainage) - Excavate & lay drain CH350			
1					L4 (Drainage) - Back
RWA		W & rebat fixing to Bay 13, 14 & 15 wa			
Wa	ll				
1&:	22 W	all			
	Roa	d L1 east 2 - Landscape funiture			
Rev	isio	n	Check	ed	Approved



CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

		CHUN WO - SIEC - VASTEAM JOINT VENTURE										
	Activity ID	Activity Name	BL Project	BL Project		At Completion	Start	Finish		Qtr 3	3, 2021	
			Duration	Start	Finish	Duration			Jul		Aug	Sep
I	RL1c-1060	Road L1 east 2 - Landscape funiture	0			367	13-Jun-20 A	04-Sep-21				Road L1 east 2 - Landscape funiture
_												
_	Road Works PTT, L	.1 west (between Junction L3 & PTT)										
_												
_	Road L1 west part	1 (Box culvert BC1)										
_	RL1c-1140	Road L1 west 1 - Landscape funiture	0			101	21-Jun-21 A	20-Oct-21				i.
_	10-1140	Noad El West 1 - Landscape funiture	0			101	21-0011-2174	20-001-21				
										1		

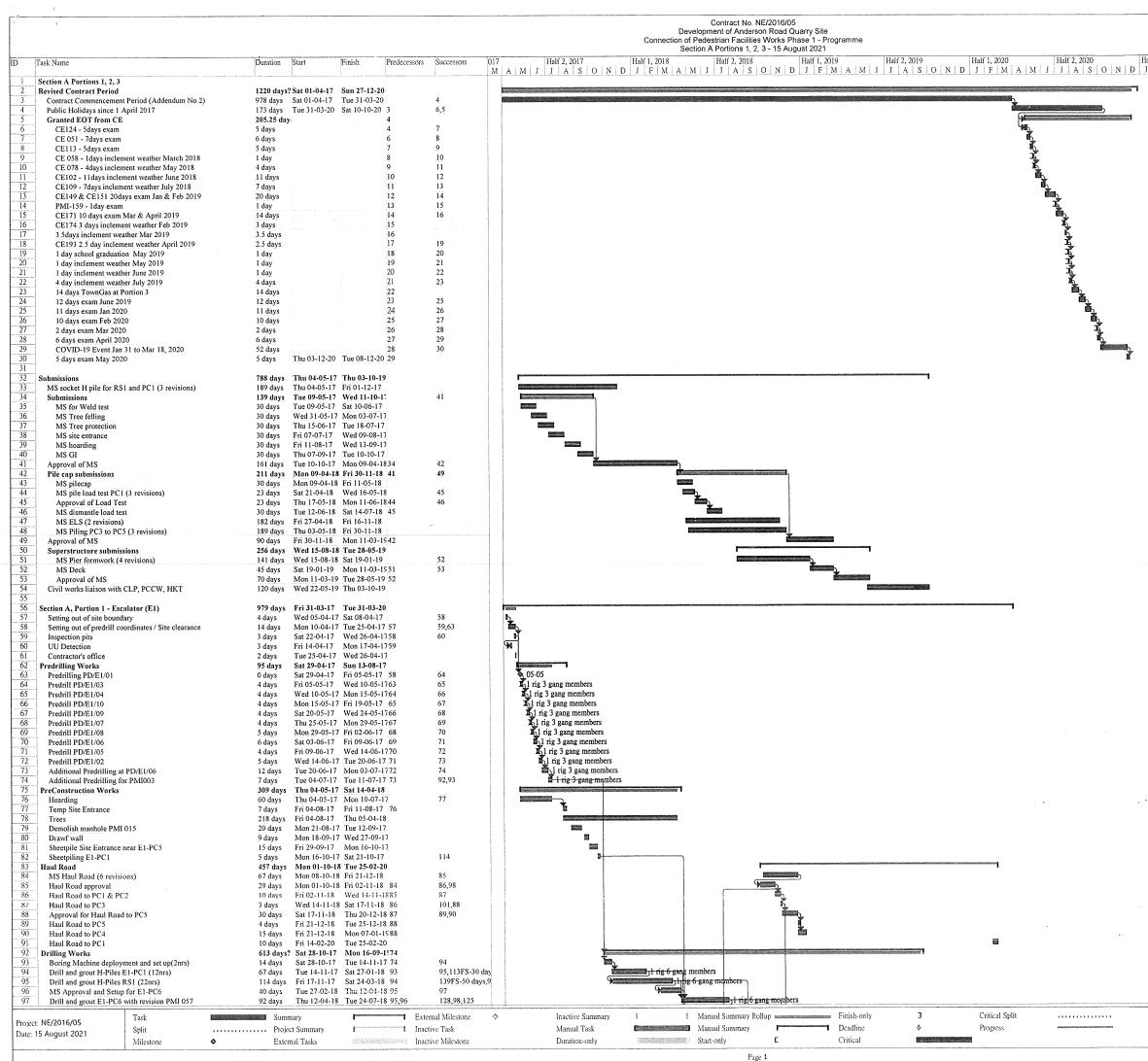
Planned Bar (WP) 🔶	Planned Milestone (WP)	2 month Dolling Drogramme	Date	Rev
Actual Bar	◆ Milestone	3-month Rolling Programme	15-Aug-21	C1-MPU202108
Forecast Bar	•	Anderson Rd Sub-programme		
		15-Aug-21		

	Page 3 of	3
	Qtr 4, 202 Oct	
	Road L1	west 1 - Landscape funiture
evision	Che	cked Approved

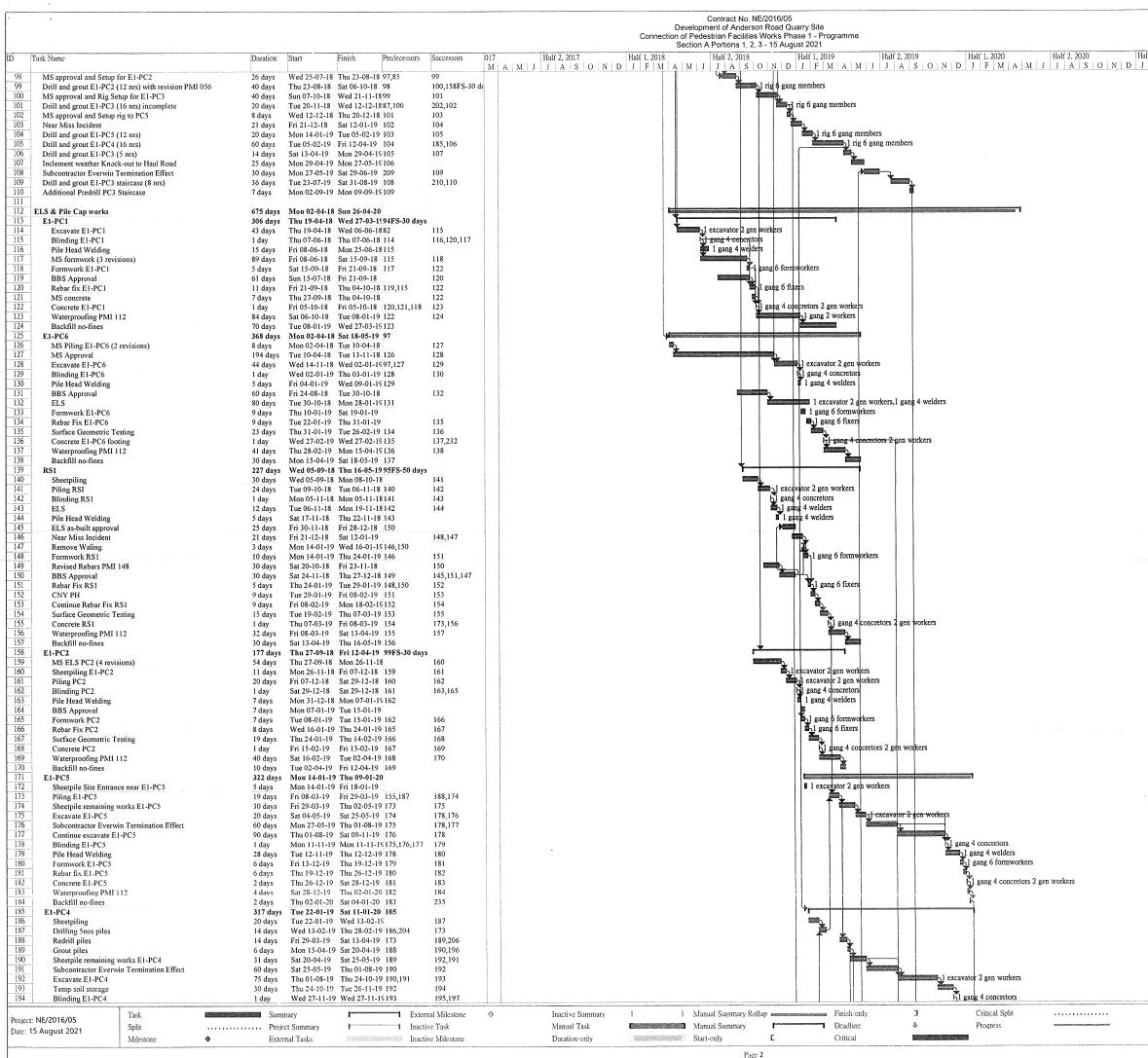


Contract 2 (NE/2016/05)

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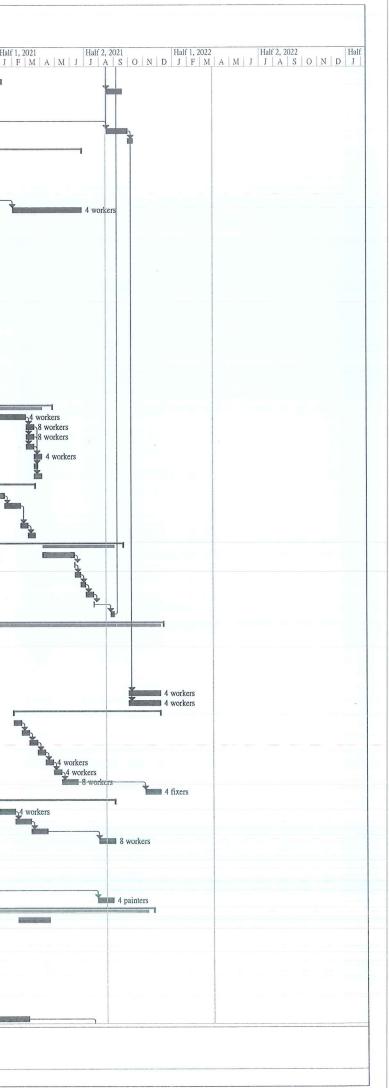
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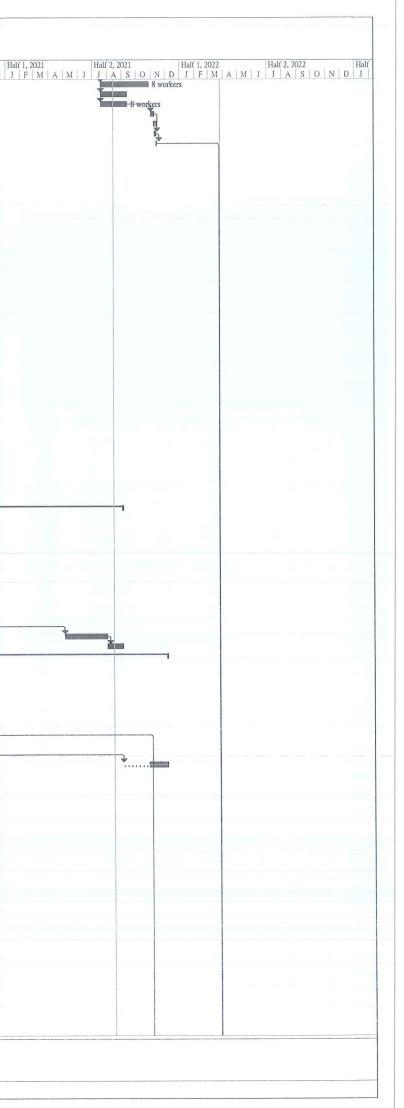
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r i	Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme
ID Task Name	Duration Start Finish Predecessors Successors 017 Half 2, 2017 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 1, 2021 Half 2, 2021 Half 2, 2022 Half 2, 2022
195 Pile Head Welding 196 BBS Approval 197 Formwork E1-PC4 198 Rebar Fix E1-PC4 200 Waterpoofing PM1 112 201 Backfill no-fines 202 E1-PC3 & RC staircase 203 MS ELS (2 revisions) 204 Drilling fino spiles 205 BBS Approval 206 Continue drilling ring ig 207 Demobilize Evervin drilling rig 208 Subcontractor Evervin Termination Effect 209 Borebackfill no-fines 210 Sheetpile PC3 & RC Staircase 211 Excavate PC3 & staircase pilecaps 212 Removal of backfill material 213 FLS 214 Blinding PC3 & staircase pilecaps 215 Pile Head Welding 216 Formwork PC3 & Staircase pilecaps 217 Rebar Fik PC3 & Staircase pilecaps 218 COVID-19 Event 1an 31 to Mar 18, 2020 Construction of Temp Work design and MS for Piers (Rev 3) 220 Backfill no-fines 2215 Aptroval of Temp Work design and MS for Piers (Rev 4) <th>Constrained Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<></th>	Constrained Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>
271 Delivery, hoisting and positioning of escalator truss	75 days Wed 11-11-20 Tue 02-02-21 270 272,286 9 days Wed 03-02-21 Fri 12-02-21 271 273 9 days Fri 12-02-21 102 3-02-21 272 274 6 days Tue 23-02-21 Mon 01-03-21273 275 1 day Tue 02-03-21 Tue 02-03-21 Tue 02-03-21 276 1 day Wed 03-03-21 Wed 03-03-21275 277 1 c4 days Thu 04-03-21 Mon 08-03-21275 277
291 Material submission of corrugated steel roof Project: NE/2016/05 Task Date: 15 August 2021 Split Milestone Image: Correct Stress Str	60 day Fni 17-0720 Tue 22-09-20 292 60 day Fni 17-0720 Tue 22-09-20 292 60 day Fni 17-0720 Tue 22-09-20 292 60 day Fni 17-0720 Tue 22-09-20 292 1 9 dot day Fni 17-0720 Critical Split Fnish-only 1 Critical Split Fnish-only 1 Critical Split Fnish-only 1 Deadline & Progress Progress Fnish-only Imachive Split Fnish-only

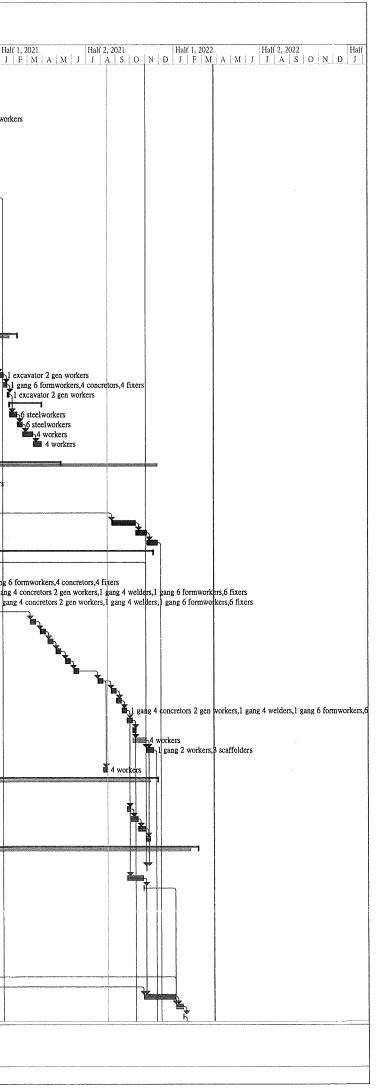
						Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 15 August 2021
Task N	Name	Duration	Start	Finish Predecessor	s Successors	017 Haif 2, 2017 Haif 1, 2018 Haif 2, 2018 Haif 1, 2019 Haif 2, 2019 Haif 1, 2020 Haif 2, 2020
		90 days		Sat 17-10-20 291	293	M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N N D J F M A M J J A S O N D J F M A M J J A S O N T
				Sat 09-01-21 292 Fri 17-09-21 286		
				Mon 09-03-20	296	
				Wed 13-05-20295	297 298	
				Tue 16-06-20 296 Wed 29-09-21286,297	299,355,356	
De	ecking construction connecting to existing footpath	10 days	Wed 29-09-21	Sat 09-10-21 298		
			Tue 13-11-18	Fri 25-06-21 Thu 21-02-19	302	
TT	TA Application for drainage works at Hiu Ming Street	80 days	Thu 21-02-19	Wed 22-05-19301	303	
				Wed 22-04-20302 Mon 25-05-20303	304 305	
Pr	ocurement to delivery of material for Drainage			Wed 17-06-20304	306	¥
				Fri 25-06-21 305		
			Tue 13-11-18	Thu 05-03-20 Sat 08-12-18	309	
Ap	pproval of Specialist for E&M Works	24 days		Sat 05-01-19 308	310	
				Thu 07-02-19 309 Wed 13-03-19310	311,318 312	
M	laterial submission of cables, conduits, fittings	24 days	Wed 13-03-19	Tue 09-04-19 311	313	
				Mon 06-05-19312 Sat 08-06-19 313	314 315	
				Fri 12-07-19 314	316,317	
M	laterial submission of Pillar Box c/w accessories	26 days	Fri 12-07-19	Sat 10-08-19 315		
				Sat 10-08-19 315 Wed 13-03-19310	319	
Ap	pproval of MCB distribution board	30 days	Wed 13-03-19	Tue 16-04-19 318	320	
				Mon 20-05-19319 Sat 22-06-19 320	321 322,327	
				Wed 28-08-19 320	544,541	
Ap	pplication of telemetry (Chubb)	100 days	Fri 15-11-19	Thu 05-03-20	225	
				Wed 15-05-19 Sat 20-07-19 324	325	
Cons	struction and Installation works for pillar box	130 days	Tue 01-12-20	Sat 24-04-21		
				Sat 27-02-21 321	328,330,329 332	
				Wed 17-03-21327 Wed 17-03-21327	332	
In	stallation of E&M Component inside Pillar Box	15 days	Mon 01-03-21	Wed 17-03-21327	333	
				Fri 02-04-21 329 Thu 25-03-21 328		
Тð	&C of E&M works inside pillar box	15 days	Wed 17-03-21	Fri 02-04-21 330		
			y Fri 10-07-20		336	
	1.1			Wed 13-01-21 Tue 16-02-21 335	336	
Pr	rocurement to delivery of Sump Pump, Piping and Associated Equ	90 days	Fri 10-07-20	Mon 19-10-20		
				Thu 04-03-21 336 Fri 19-03-21 338	339	
Insta	allation of Lighting for escalator	415.75 day	y:Thu 11-06-20	Sun 19-09-21		
Pr	rocurement & Delivery of Lighting and accessories	60 days	Sun 04-04-21	Wed 09-06-21	342	
	andover of escalator cover walkway to E&M stallation Conduit and cable containment	1 day 10 days		Thu 10-06-21 341 Tue 22-06-21 342	343 344	
Ca	able and wiring	10 days	Tue 22-06-21	Fri 02-07-21 343	345	
	stallation of Light fitting ower connection to Lighting	14 days 1 day		Mon 19-07-21344 Tue 20-07-21 345	346 347	
		1 day 7 days		Mon 30-08-21346	279	
Land	dscape Works	1041.75 da	a Wed 03-10-1	3 Sun 12-12-21		
		3 days 3 days		Fri 05-10-18 Thu 05-03-20 349	350	I-4 workers
In	ndividual TRA Form 2	150 days	Wed 03-10-18	Tue 19-03-19		
	ubmission of proposal of Landscape Specialist	30 days		Mon 05-11-18	353 354	
	ursery Inspection pproval of proposal of Landscape specialist			3 Fri 16-11-18 352 Thu 06-06-19 353	554	
Co	onstruction of hard and soft landscape works	60 days	Wed 29-09-2	Sat 04-12-21 298		
	ectification of Defects d and Pavings / Traffic Signs		Wed 29-09-2 Mon 01-02-2	Sat 04-12-21 298		
Μ	faterial submission of Road Pavers	15 days	Mon 01-02-2	Wed 17-02-21	359	
	pproval of material submission of Road Pavers	15 days		Fri 05-03-21 358 Tue 23-03-21 359	360 361	
	rocurement to delivery of Road Pavers Indering to delivery of concrete kerbs from CSD			Thu 08-04-21 360	361	
C	onstruction of kerbs	15 days	Thu 08-04-21	Sat 24-04-21 361	363	
	onstruction of footpath onstruction of Paved Area	15 days 30 days		Wed 12-05-21362 Tue 15-06-21 363	364 365	
In	nstallation of Traffic / Directional Signs	30 days	Tue 02-11-21	Sat 04-12-21 364		
	ernal Finishes faterial submission of tiles			0 Tue 31-08-21 Wed 03-02-21	368	
	aterial submission of tiles			Tue 09-03-21 367	368	
Pr	rocurement to delivery of tiles	30 days	Tue 09-03-21	Mon 12-04-21368	370	
	iling works faterial submission of Paint	30 days 30 days		Tue 31-08-21 369 Mon 04-05-20	372	
C	omment of material submission of paint	30 days	Mon 04-05-2) Sat 06-06-20 371	373	
	nd submission of paints			Fri 10-07-20 372 Mon 27-07-20373	374 375	
	pproval of material submision of paints rocurement to delivery of paints			Mon 27-07-20373 Thu 13-08-20 374	375	
Te	exture spray, fungus resistant paint	30 days	Mon 26-07-2	I Fri 27-08-21 375		
	struction of Sau Mau Ping Memorial Park lope improvement work (11NE-D/CR222)	562.5 day 60 days		0 Sun 21-11-21 Fri 16-04-21		
M	faterial submission of Pavillion	30 days	Thu 07-05-20	Wed 10-06-20385	380	
	pproval of material submission of Pavillion	30 days		Tue 14-07-20 379	381	
	rocurement to delivery of Pavillion faterial submissin of Bench	30 days 30 days		Sat 15-08-20 380 Wed 10-06-20385	383	
A	approval to material submission of Bench	30 days	Wed 10-06-2	0 Tue 14-07-20 382	384	
P	rocurement to delivery of Bench	30 days		Sat 15-08-20 383	206 270 202	
	Design submission of Pole Light to LCSD faterial of material submission of Pole Light	60 days 10 days		0 Thu 07-05-20 Tue 19-05-20 385	386,379,382 387	
A	approval of material submission of Pole Light	10 days	Tue 19-05-20	Fri 29-05-20 386	388	ž
P	rocurement to delivery of Pole Light	90 days	Mon 23-11-2	0 Wed 03-03-21387	389,390,391	
	2016/05 Task	Sumn	mary		ternal Milestone	♦ Inactive Summary Manual Summary Rollup Finish-only D Critical Split
: NE/2	suit 2021 Split				active Task	Manual Task Manual Summary Deadline Progress



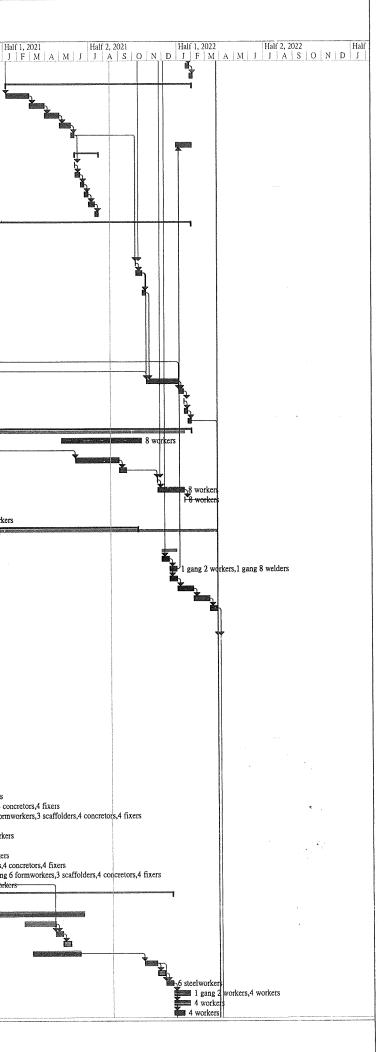
,					Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme
Task Name	Duration	n Start	Finish Predecessors	Successors	Section A Portions 1, 2, 3 - 15 August 2021 017 Half 2, 2017 Half 1, 2018 Half 1, 2019 Half 1, 2020 M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A S O N D J A M
Construction of Pavillion, bench, po			Wed 27-10-21388		M A M 1 1 4 2 0 M D 1 L M A M 1 1 4 2 0 M D 1 L M A M 1 1 4 2 0 M D 1 L M A M 1 1 4 2 0 M D 1 M A M 1 1 4 2 0 M
Construction of Irrigation system Construction of Pavers	50 days 50 days		Sat 11-09-21 388 Sat 11-09-21 388	392	
Handovwer to LCSD	7 days	Mon 01-11-21	Mon 08-11-21391	394	
General Inspection and Tidy Up of P General Inspection and Tidy Up of I		Mon 08-11-21 Mon 08-11-21	Sat 13-11-21 Fri 12-11-21 392	395	
Handover Portion 1	1 day		Sat 13-11-21 394	684	
Section A, Portion 2 - Lift Tower	22)				
Handover of Portion 1	1 day	Sat 01-04-17		399 462,410,405	
Site Preparation Works Submissions	91 days 304 day	vs Wed 02-08-17		402,410,403	
MS for Lift LT1 excavation MS Footbridge	30 days 30 days				
MS trench excavation	30 days	Wed 02-08-17	Mon 04-09-17		
Substructure CSD		ys Thu 13-07-17 rs Fri 14-07-17		419,420	
MS for socket H pile E2-PC2 (4 rev	ions) 221 day	s Tue 28-11-17	Thu 02-08-18	115,120	
MS for ELS covered walkway C1 (3 MS for platform for minipiling (3 re		Wed 13-12-17 Mon 18-12-17			
MS Rock fall fence (2 revisions)	56 days	Mon 05-03-18	Sat 05-05-18	100	
MS tree pruning proposal (4 revision MS working platform	s) 488 day 30 days	rs Thu 13-07-17 Fri 22-06-18		482	
MS ELS E2-PC1	30 days	Tue 20-11-18	Sat 22-12-18		
MS Piling MS Temp Gravity Wall for RWE 3b	(3 revisions) 30 days 70 days	Fri 07-12-18	Sat 23-02-19		
MS Concrete Block Platform (2revis	ons) 35 days	Sat 08-12-18	Wed 16-01-19		
MS Predrilling E3-PC2 (2 revisions) MS footbridge	31 days 30 days				
MS Lift Tower	30 days	Tue 18-12-18		483	
Method Statement for Construction Method Statemenst for Piling, ELS,	f Portion 2 45 days vilecap and Pier Construction 60 days		Sat 24-11-18 405 Tue 11-12-18 405	483	
Superstructure E2 and E3 Footbridg	and Lift Tower 394 day	ys Wed 01-08-18		423	
Approval of MS for formwork desig	gn for concreting Bridge Piers 150 day for concreting Bridge Piers 40 days	Wed 16-01-19	Fri 01-03-19 422		
Design and MS Submission of Lift 7 Approval of Design and MS Submis	owers E2-ST1 and E3-ST1 (2) 200 day ion of Lift Towers 30 days		Tue 12-03-19 Mon 15-04-19424	425	
	Temporary Works design for 200 days			427	
Approval of MS of Temp Works de Submission of Design and Material	gn for concreting of Lift towe 30 days or Bridge Bearings 30 days		Mon 15-04-19426 Sat 18-05-19 427	428 429	
Approval of Design and Material fo			Fri 21-06-19 428	430	
Testing and result submission of Bri		Fri 21-06-19		431	
Procurement, ordering and delivery Steel Bridge		lays Tue 23-04-19	Wed 16-10-19430 Thu 02-09-21		
Submission of MS for Erection of S				435	
Proposal of off-site fabrication of st Approval of Off-Site fabrication of st	elworks for E2 and E3 30 days eelworks for Bridge E2 and E:400 day			435 436,438,441,444	
Submission of Design of roof system	30 days		Mon 23-03-20435	437	
Approval of Design of roof system Submsission of Material of Corruga	20 days ed Steel Roof 30 days		Wed 15-04-2C436 Mon 23-03-2C435	439	
Approval of corrugated steel roof		Tue 24-03-20 Wed 15-04-20		440	
Procurement to delivery of corrugat Submission of material fall arrest sy	tem 30 days	Wed 19-02-20	Mon 23-03-20435	442	
Approval of fall arrest system Procurement to delivery of fall arrest	20 days system 90 days		Wed 15-04-20 441 Fri 24-07-20 442	443	
Submission of Design of Glazing an	Louvre 30 days	Mon 01-06-20	Fri 03-07-20 435	445	
Approval of Design and Glazing and Procurement, ordering and delivery			Fri 30-07-21 444 Thu 02-09-21 445	446	
E&M and Building works	717.25	day: Tue 24-09-19	Sat 04-12-21		
	ation system and submersible [60 days on system and submersible pui 30 days		Sat 05-09-20 Fri 09-10-20 448	449,450	
Submission of Ventilation System	30 days	s Sat 05-09-20	Fri 09-10-20 448		
Design submission of lighting at foo Approval of Design Submission of I		ys Tue 24-09-19 s Sun 03-05-20	Thu 30-07-20 Wed 02-09-20451	452 453	
Procurement to delivery of Lighting	60 days	Wed 02-09-20	Mon 09-11-20452		
Submission of MS for Lift Installati Approval of MS for Lift Installation	n 60 days 60 days		Thu 20-08-20 Tue 27-10-20 454	455 567	
Procurement, ordering and delivery	of Lift 180 day	ys Fri 01-05-20	Wed 18-11-20		
Application of E1 XP for telemetry Completion of Telemetry Civil & E		ys Fri 01-05-20 s Thu 02-09-21	Sat 31-10-20 Sat 04-12-21 457	458	
Setout Predrill location	1151.2	5 da Mon 24-04-17	Tue 03-11-20	463	
Contractor Site Office Site Clearance	2 days 70 days		Tue 25-04-17 Fri 14-07-17 460	461 462	
MS rock slope excavation (4 revisio	as) 200 day	ys Thu 13-07-17	Wed 21-02-18399,461 Sat 03-03-18 462	465,463 464	1 gang 2 workers
Inspection pits Noise Barrier for LT1	10 day: 1 day	Sat 03-03-18	Sat 03-03-18 463	465	1 gang 2 workers
Blocks for Platform and wall E2-PC1 Piling	27 day: 35 day:		Tue 03-04-18 464,462 Sat 12-05-18 465	466 469,468,470	11 rig 6 gang-members
EOT school examination PMI 051	7 days	Fri 06-04-18	Fri 13-04-18	407,400,470	
Presplitting PMI 054	120 da	ys Tue 15-05-18		470	1 gang 2 workers
Rock slope cutting at LT1 to ground EOT school examination PMI 117	2 days		Fri 02-11-18 469,466	471	M _L
Rock slope cutting at LT1 to ground EOT school examination PMI 141		s Fri 02-11-18	Tue 03-11-20 470 Thu 31-01-19 471	472 473	
EOT school examination CE149 &	51 20 day	s Thu 31-01-19	Wed 06-05-20472	474	
Rock slope cutting at LT1 to ground CE171 10 days exam Mar & April			Mon 25-03-19473 Fri 05-04-19 474	475 476,490	
Rock cutting to basement level	396 da	ys Sat 06-04-19	Tue 23-06-20 475	501,536,577,60	s l
Rock dowel stabilization PMI 076,	MI 080, PMI 103, PMI 132, P 40 day	s Mon 01-04-19	Wed 15-05-19		3 scaffolders,4 workers
Rock dowel stabilization PMI 197 Site Formation Works	56 day 611 da	s Tue 13-11-18 Tue 13-11-18			
Inspection Pit PMI 106	15 day	s Tue 13-11-18	Thu 29-11-18		 1 gang 2 workers 1 excayator 2 gen workers
Trial Trench for tree roots PMI 077 Approval of tree pruning proposal	7 days 85 day		Tue 20-11-18 Mon 15-04-19410	483	
Prune / Fell trees for access of plan	10 day	s Tue 16-04-19	Fri 26-04-19 419,420,482	195	4 painters 1 excavator 2 gen workers, 1 gang 2 workers
Relocation of RCP SWAP TTA	14 day 120 da	s Sat 01-06-19 hys Mon 17-06-19		485 486	1 excavator 2 gen workers, 1 gang 2 workers
Task		ummary		nal Milestone	♦ Inactive Summary I Manual Summary Rollup Finish-only I Critical Split
: NE/2016/05 Task 5 August 2021 Split			-	ive Task	Manual Task Manual Summary Deadline Progress
Mileston	♦ E:	xternal Tasks	Inact	ive Milestone	Duration-only Start-only C Critical



	· •					Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 15 August 2021
Ď	Pask Name	Duration	Start	Finish Predecessors	Successors	O17 Half 2, 2017 Half 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 2, 2010 Half 2, 2010
486 487	Pending WSD comments Water diversion for Hiu Wah Building	208 days		Thu 18-06-20 485 Sat 26-09-20 486	487	
488	Deploy Excavator and trim ground and slope from Retaining Wall 3b	90 days 81 days	Mon 25-02-19	9 Sat 25-05-19	489	1 excavator 2 gen workers
489 490	Everwin terminatiion effect Retaining Wall RWE3b Works	31 days 90 days		Sat 29-06-19 488 Tue 08-10-19 475		
491	Remove soil nails during triming	130 days	Wed 01-04-20) Mon 24-08-20	527	1 excavator 2 gen work
492 493	E2-PC1 (28 nos piles) Deploy GI rig for predrilling	196 days 10 days	Fri 01-06-18 Fri 01-06-18	Sat 07-11-20 Tue 12-06-18	494	
494 495	Sheetpiling Drill Pre-Bore H-Piles at E2-PC1 (28nos)	15 days 120 days		Thu 28-06-18 493 Sat 10-11-18 494	495 496	
496	Stop for TTA use	60 days	Sat 10-11-18	Wed 16-01-19495	497	
497 498	Shoring works Excavation works	489.75 da 52 days		9 Fri 17-07-20 496 Mon 14-09-20 497	498 499	
499 500	RC Pilecap Works E2-PC2 (4nos piles)	30 days 306 days		Sat 07-11-20 498 9 Tue 30-06-20	586	
501	Deploy GI rig for predrilling	7 days	Tue 23-06-20	Tue 30-06-20 476		1 rig 3 gang members
502 503	Drill Pre-Bore H-Piles at E2-PC2 (2nos) Swap TTA	8 days 28 days		7 Thu 01-08-19 507 Mon 02-09-19 502	503 504	tig 6 gang members
504 505	Drill Pre-Bore H-Piles at E2-PC2 (2nos) Shoring works	8 days 40 days	Mon 02-09-19	Wed 11-09-19503 Mon 16-12-19	506	1 ng 6 gang members
506	RC Pilecap Works with couplers	70 days	Mon 16-12-19	Tue 03-03-20 505		
507 508	E3-PC3 (6nos piles) Drill Pre-Bore H-Piles (6 nos)	292 days 28 days		Wed 24-06-2(Mon 02-09-15	502 509	
509	Site formation works	200 days	Mon 02-09-19	9 Mon 13-04-20508	510	
510 511	Shoring works RC Pilecap Works	40 days 11 days	Thu 28-05-20	Tue 09-06-20 510	511 512	
512	RC Abutment Works C1 Footing	13 days		Wed 24-06-20511 Sun 07-02-21		
514	Excavation 1.2m and remove C&D	60 days	Wed 01-08-18	3 Sat 06-10-18	515	l excavator 2 gen workers
515 516	Stop for TTA use Excavation 2.2m and remove C&D	702 days 20 days		Tue 01-12-20 514 Wed 23-12-20515	516 517	
517 518	Shoring works	15 days	Wed 23-12-20) Sat 09-01-21 516	518 519	
519	RC concrete footing works backfill	7 days 4 days	Sat 16-01-21	Sat 16-01-21 517 Thu 21-01-21 518	519	
520 521	Covered Walkway Steelwork erection for covered walkway	59 days 14 days		Mon 29-03-21 Sat 06-02-21 519	522	
522	Installation of steel sheet roof for covered walkway	10 days	Sat 06-02-21	Wed 17-02-21521	523	
523 524	Installation of Lighting to covered walkway Installation of Irrigation Pipe	20 days 15 days		Thu 11-03-21 522 Mon 29-03-21523	524	
	GI Predrilling works E3-PC2 Pile cap (9 nos)	10 days		Wed 29-04-20 Sun 09-05-21		
527	Tower crane construction at Tennis Court	137 days	Sat 19-10-19	Mon 01-06-2C491	528,529	
528 529	Slope trimming works Tree felling works	40 days 33 days		Wed 15-07-20527 Tue 07-07-20527	530	design 1 excavator 2 gen workers
530 531	Temp. Work Design Calculation for cut slope and shoring	89 days	Fri 31-07-20	Sat 07-11-20 529 Thu 31-12-20 530	531 532	
532	Shoring works and excavation Piling works	45 days		1 Tue 12-10-21 531	533	
533 534	RC Pilecap works RC Pier Works	21 days 21 days		Thu 04-11-21 532 Sat 27-11-21 533	534 633	
535	Lift Tower E3-ST1	458.75 da	ay:Tue 23-06-20	Thu 18-11-21		
536	Basement construction Level to G/F +25mPD	29 days 50 days		Sat 25-07-20 476 D Sat 31-10-20 536	555,556,537 538	
538 539	Level +25mPD to +29mPD Level +29mPD to +33mPD	20 days 10 days		D Tue 24-11-20 537 Fri 04-12-20 538	539 540	
540	Level +33mPD to +34mPD	10 days	Sat 05-12-20	Wed 16-12-20539	541	
541 542	Level +34mPD to +37.4mPD Level +37.4mPD to +41.4mPD	10 days 10 days		0 Sat 26-12-20 540 Tue 16-03-21 541	542 543	
543 544	Level +41.4mPD to +43.6mPD Level +43.6mPD to +47mPD	10 days		Mon 05-04-21542 Wed 21-04-21543	544 545	
545	Level +47mPD to +50.8mPD	10 days 10 days	Tue 27-04-21	Fri 07-05-21 544	546	
546 547	Level +50.8mPD to +54.2mPD Level +54.2mPD to +58.2mPD	10 days 10 days		1 Thu 27-05-21 545 Mon 14-06-21546	547 548	
548 549	Level +58.2mPD to +59.7mPD	10 days	Sat 24-07-21	Wed 04-08-21547	549,557	
550	Level +59.7mPD to +63mPD Level +63mPD to +66.5mPD	10 days 10 days		Wed 01-09-21548 1 Sat 11-09-21 549	550 551	
551 552	Construction of Roof +66.5mPD to +70.45mPD Construction of Roof +70.45mPD to +71.35mPD	10 days 10 days		1 Thu 23-09-21 550 Tue 05-10-21 551	561,568,552 554,553,603	
553	Remove tower crane	7 days	Tue 05-10-21	Tue 12-10-21 552		
554 555	Erection of glazing and louvres Dismantling of external and internal scaffolding	25 days 15 days		Tue 02-11-21 552 Thu 18-11-21 536,554	555,567 625	
556 557	Infill No Fine Concrete between Rock Slope and Wall of E3-ST1 Installation of bridge bearings	60 days 7 days		Wed 30-09-20536 1 Thu 12-08-21 548		4 workers
558	E3 Lift Tower Lighting	509.5 day	ys Thu 07-05-20	Sun 28-11-21		
559 560	Handover EMSD Pillar Box and associated ducting to E&M Electrical works inside Pillar Box EMSD and Lighting Compartm	l day iei 14 days		Thu 07-05-20 Sat 23-05-20 559	560	
561 562	Conduit and cable containment Cable and wiring	7 days 14 days	Thu 23-09-21	Fri 01-10-21 551 Sat 16-10-21 561	562 563	
563	Installation of Light fitting	13 days	Sat 16-10-21	Mon 01-11-21562	563 564	
564 565	T&C E3 Lift Installation	10 days 768.75 da		1 Thu 11-11-21 563 9 Sun 20-02-22		
566	Statuary Submission of Lift Design and Materials	60 days	Mon 14-10-1	9 Thu 19-12-19		
567 568	Handover lift shaft and associated ducting to E&M E&M works inside Lift Shaft	1 day 30 days	Thu 23-09-21	Wed 03-11-21554,455 Wed 27-10-21551	569,580	
569 570	Handover of Lift structure to E&M Lift subcontractor Confirmation of telemetry service routing with CHUBB / HKT	1 day 150 days	Wed 27-10-2	1 Thu 28-10-21 568 0 Tue 15-09-20	581 571	
571	Chubb/HKT cable laying for telemetry cable system	26 days	Wed 16-09-2	0 Wed 14-10-20570	572	
572 573	Installation and connection of telemetry components in Pillar Box CLP cable laying and lead-in into Pillar Box	14 days 30 days) Fri 30-10-20 571) Thu 03-12-20	574	
574 575	CLP Lift Meter Power and Connection CLP Lift Meter Installation inside Pillar Box	1 day 7 days	Fri 04-12-20	Fri 04-12-20 573 Sat 12-12-20 574	575	
576	Procurement to delivery of Sump Pump and Panel	96 days	Fri 13-03-20	Sat 27-06-20	578	
577 578	Handover Sump Pit and associated ducting to E&M Installation of Sump Pump (by Wing Luen)	l day 18 days		Wed 24-06-20476 0 Sat 18-07-20 577,576	578 581	
579	Delivery of Lift components to site	180 days	Wed 15-04-2	0 Mon 02-11-20	580	
580 581	Lift installation and Lift Shaft Ventilation installation Testing & commissioning	60 days 14 days		1 Sat 01-01-22 579,568 2 Tue 18-01-22 569,578,580		
582	EMSD Form LES submission	1 day		2 Wed 19-01-22581	583	
	NE/2016/05 Task Salt	Sum Broi	•		mal Milestone ive Task	Inactive Summary Image: Manual Summary Rollup Finish-only Image: Critical Split Critical Split Manual Task Manual Summary Deadline Image: Progress
Date: 1	5 August 2021 Split Milestone I I I I I I I I I I I I I I I I I I I		ect Summary emal Tasks		ive Task ive Milestone	Manual Iask Manual Summary Deadline & Progress Duration-only Start-only E Critical
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8	* e						Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 15 August 2021
ĪĎ	Task Name		Duration	Start	Finish Predecessors	s Successors (017 Half 2, 2017 Half 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020
583	EMSD Inspection		7 days		Thu 27-01-22 582	584	
584 585	Use Permit E2-LT1 Lift Shaft Constr	iction	7 days 347.5 day		Thu 03-02-22 583 Tue 01-02-22	с на	
586	Completion of RC struct	ire 1/F	45 days	Thu 07-01-21	Fri 26-02-21 499	587	
587 588	Completion of RC struct Completion of RC struct		28 days 28 days		Tue 30-03-21 586 Fri 30-04-21 587	588 589	
589	Erection of glazing and I		21 days		Mon 24-05-21588	590	
590 591			7 days		Tue 01-06-21 589	593,603	
591		and cantilever slab	30 days 45 days		Tue 01-02-22 634 Wed 21-07-21		
593	Handover EMSD Pillar	Box and associated ducting to E&M	1 day	Tue 01-06-21	Wed 02-06-21590	594	
594 595		illar Box EMSD and Lighting Compartme	n 10 days 7 days		Sat 12-06-21 593 Mon 21-06-21594	595 596	
596	Cable and wiring		8 days	Mon 21-06-21	Wed 30-06-21595	597	
597 598	Installation of Light fittin T&C	g	12 days 7 days		Tue 13-07-21 596 Wed 21-07-21597	598	
599		ation	896 days		Sat 29-01-22		
600		ection	90 days		Mon 12-08-19	601	
601 602	Approval of submission Statuary Submission of I	ift Design and Materials	30 days 60 days		Sat 14-09-19 600 Thu 19-12-19		
603	Handover lift shaft and a	ssociated ducting to E&M	l day	Tue 05-10-21	Wed 06-10-21590,552	604	
604 605		haft associated ducting to E&M	12 days 1 day		Tue 19-10-21 603 Wed 24-06-20476	606,615 613	K .
606		e to E&M Lift subcontractor	7 days		Wed 27-10-21604	615	
607 608		y service routing with CHUBB / HKT	150 days		Sat 22-08-20	608	
609	Installation and connecti	for telemetry cable system on of telemetry components in Pillar Box	26 days 14 days		Mon 21-09-20607 Wed 07-10-20608	609,610	
610	CLP Lift Meter Installat	on	7 days		Tue 29-09-20 608	611	
611 612	CLP Lift Meter Power C Procurement to delivery	onnection of Sump Pump and Panel	1 day 96 days		Wed 30-09-20610 Sat 27-06-20	613	
613	Installation of Sump Pur	p (by Wing Luen)	100 days	Mon 29-06-20) Sat 17-10-20 605,612	616	
614 615		ents to site Shaft Ventilation installation	180 days 60 days		Fri 19-06-20 Sat 01-01-22 614,604,60	615 6 616	
616	Testing & commissionin		60 days 10 days		2 Thu 13-01-22 613,615	617	
617 618	EMSD Form LE5 submi		l day	Thu 13-01-22	Fri 14-01-22 616	618 619	
619			7 days 7 days		Sat 22-01-22 617 Sat 29-01-22 618	641	
620	Drainage and Landscape	works at Hiu Ming Street	952.25 da	ay:Fri 01-03-19	Sun 30-01-22		
621 622		s Works at Hiu Ming Street ainage Works at Hiu Ming Street	150 days 90 days		1 Sat 16-10-21 Mon 10-06-19	623	
623	Approval of TTA for co	istruction of Drainage Works at Hiu Ming				624	
624 625			14 days		Thu 16-09-21 623	625 626	
625		fing Street	1 day 50 days		Fri 19-11-21 624,555 Fri 14-01-22 625	627	
627	General Tidy Up		l day		Sat 15-01-22 626	641	
628 629				ys Mon 01-06-2 Thu 18-06-20	0 Sun 29-11-20 Tue 10-11-20		8 worker
630	Steel Bridge between E3-	ST1 and E3-P1	443.75 da	ay:Mon 01-06-2	0 Sun 10-10-21		
631 632		of Fabricated Steelworks		Mon 01-06-2	0 Thu 26-11-20 0 Sun 20-09-20		
633		Bridge Deck between E3-ST1 and E3-P1			Mon 13-12-21534	635,634	
634		Roof E3-ST1 to E3-P1 Pier	14 days		Wed 29-12-21633	591	
635 636	Construction of Screedin Installation of parapets a		15 days 30 days		Thu 30-12-21 633 Wed 02-02-22635	636 637	
637	Installation of lightings	o steel truss between E3 tower and E3 abu	it 30 days	Wed 02-02-2	2 Mon 07-03-22636	638	
638 639		Pipe and water point	15 days 15 days		Thu 24-03-22 637 0 Wed 17-06-20	684,641	H
640	Tree Pruning PMI 04	4	15 days	Mon 01-06-2	0 Wed 17-06-20		. 4 workers
641 642	Handover Portion 2		l day	Thu 24-03-22	Fri 25-03-22 627,638,61	9	
643		d E2-P3 (Section A E3 Portion 3)	427.25 d	ay Fri 21-12-18	Sun 12-04-20		
644		ion 3	1 day		Fri 21-12-18	645,646	₩
645 646		ial Handover	30 days 63 days		Thu 24-01-19 644 Sat 02-03-19 644	647	
647	Waiting for Full Handor		71 days	Sat 02-03-19	Tue 21-05-19 646	648	
648 649		South bound footpath of Hiu Kwong Stree	l day at 7 days		Wed 22-05-19647 9 Thu 30-05-19648	649 651,650	K4 surveyors K1 gang 2 ,workers, 4 workers
650	RA approval from Distr		60 days		Mon 05-08-19649	651	
651	TownGas Diversion Wo	rks	100 days	Mon 05-08-1	9 Mon 25-11-19649,650	652	4 workers
652 653	Relocation of Crossing Trial Pit at E2-PC3 for		10 days 7 days		9 Fri 06-12-19 651 Sat 14-12-19 652	653 654	14 workers
654	TownGas Handover Po	tion 3	90 days	Sat 14-12-19	Tue 24-03-20 653	655	
655 656		post	7 days 197 days		Wed 01-04-20654 Sat 07-11-20	657	S workers
657	Rock excavation with sl	oring for E2-F3	81 days	Wed 01-04-2	0 Tue 30-06-20 655	658	1 excavator 2 gen workers
658 659	Construction of pad foo	ing E2-F3	10 days		0 Sat 11-07-20 657	659 660	Lagag 6 formworkers,4 co
659			75 days 30 days		Sat 03-10-20 658 Fri 06-11-20 659	660 661	
661	Installation of bearing a		l day	Fri 06-11-20	Sat 07-11-20 660		l ⁴ 4 worker
662 663		toring for construction of E2-F4	176 days 65 days	Fri 01-05-20 Fri 01-05-20	Fri 13-11-20 Mon 13-07-20	664	1 excavator 2 gen workers
664	Construction of pad foo	ing of E2-F4	10 days	Mon 13-07-2	0 Thu 23-07-20 663	665	\mathbf{L}_{1} gang 6 formworkers,4
	665 Construction of columns for E2-P3 and Bridge Deck 666 Installation of bearing		100 days		Thu 12-11-20 664 Fri 13-11-20 665	666 669,671	http://works
667	667 Steel footbridge works		1 day 422.75 da	ys Tuc 01-09-20		007,071	
668	668 Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1			Tue 01-09-20	Mon 26-10-20	669	
669	669 Preparation works and Lifting of steel truss between E2-LT1 to E2-190 days Sat 14-11-20 Tue 15-06-21 668,666 670 Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, E260 days Tue 09-02-21 Fri 16-04-21					671	
671	671 Preparation works and lifting of truss for E2-P3 to connect to bridge 15 d			Thu 15-04-2	Sat 01-05-21 666,670	672	
672 673	672 Bridge Deck Construction 15 days Sat 01-05-21 Tue 18-05-21 671					674	
674	674 Preparation works and Lifting of steel truss between E2-P1 to E2-P:25 days Mon 18-10-21 Sat 13-11-21 673 676,675						
675	675 Bridge Deck Construction 15 days Mon 15-11-21 Wed 01-12-21674 676				1 Wed 01-12-21674	676	
	676 Roof installation of bridge from E2-LT1 to E2-P3 15 days Wed 01-12-21 Fri 17-12-21 674,675 677,678,679,680 677 Screeding and paving blocks for the bridge from E2-LT1 to E2-P3 30 days Sat 18-12-21 Thu 20-01-22 676					077,678,679,680	
678	Electrical installation and	ighting works for bridge from E2-LT1 to	E130 days	Sat 18-12-21	Thu 20-01-22 676		
679	Tubular handrail and plant	er on bridge from E2-LT1 to E2-P3	20 days	Sat 18-12-21	Sat 08-01-22 676		
Proie	ect: NE/2016/05	Task	Sun	-			♦ Inactive Summary 1 1 Manual Summary Rollup Finish-only 1 Critical Split
1 .	: 15 August 2021	Split		ject Summary		active Task	Manual Task Example Manual Summary 1 Deadline & Progress
		Milestone 🔷	Exte	emal Tasks	In:	active Milestone	
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	· ·								Connection of	Contract No. NE/201 elopment of Anderson Roa Pedestrian Facilities Work tion A Portions 1, 2, 3 - 15	ad Quarry Site (s Phase 1 - Program	nme							
ĪD	Task Name	Duration	Start	Finish	Predecessors	Successors	017 Half 2, M A M J J A	2017 S O N	Half 1, 2018	Half 2, 2018	Half 1, 2019	Half 2, 2019	Half 1, 2020	Half 2, 2020 M J J A S O	Half 1, 2021 N D J F M A	Half 2, 2021	Half 1, 2022	Half 2, 2022	Half D J
681 682 683	150mm dia storm drain pipe across Hiu Kwong Street Trenching works for connection of existing water connection point Water meter box and water point connection General Tidy Up for Portion 3 Handover Portion 3		Sat 18-12-21 Thu 20-01-22 Sat 18-12-21 Thu 20-01-22 Thu 24-03-22	Wed 23-02-2 Thu 20-01-2 Wed 26-01-2	22680 2 676	681 683 684											8 workers 4 workers 4 workers 8 workers	2 gen workers	

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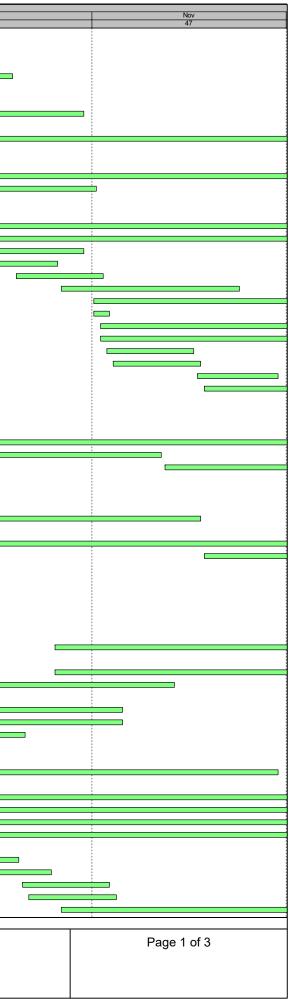
	Task	Summary	formation and the second second	External Milestone	\$	Inactive Summary	3 3	Manual Summary Rollup)	Finish-only	7	Critical Split	
Project: NE/2016/05 Date: 15 August 2021	Split	 ,		Inactive Task	·	Manual Task		Manual Summary		Deadline	ê	Progress	1000 001000 000000 0000000000000000000
Date, 15 August 2021	Milestone	\$ External Tasks		Inactive Milestone		Duration-only		Start-only	С	Critical			
								Page 8					



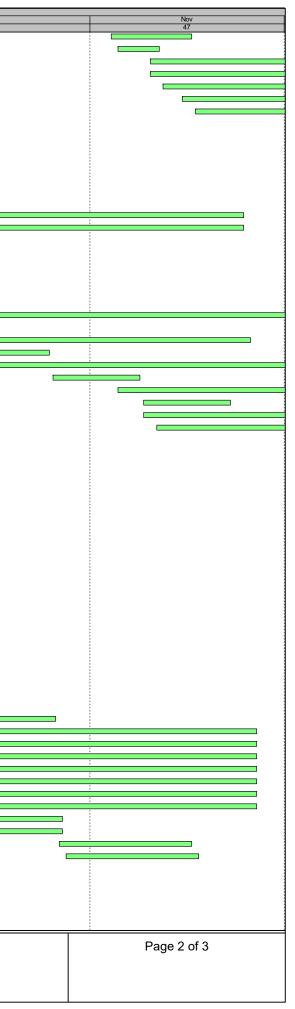
Contract 3 (NE/2017/03)

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CON12368 (EWN8 CON10748 ELS wo CON10746C (NCE0) CON10746C (NCE0) CON12366C Modific CON12313D (NCE1) CON12313D CORT CON12313D Constr CON12330 Constr CON12330 Constr CON10270 ELS to CON10746D (NCE1) CON10740D Constr CON10750 Constr CON10412 Constr CON10412 Constr CON1050A (NCE1) CON10412 Constr CON10414 Constr CON1030A (NCE1) CON1030A (NCE1) CON1030A (NCE1) CON1030B (NCE1) CON1030B (NCE1) CON10650B (NCE1) CON10650B (NCE1) CON10650B (NCE1) CON10650C (NCE1) CON1030C (NCE1) CON20670 <th>RIW1) ruct RW wall (RWC2 type 1a & 1 [Bay 2 to Bay 1]) 81) Non-Possession of Handovered Area Near Subway KS27 near Sar orks at RWC2 type 3 (7500 m3, 100 m3/d, 2 teams) D36B) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 RWC2 type : cation works to existing drainage pipe (near KS27 west side bay 2) 157) Inclement weather (21/7/2021 to 20/8/2021) on RIW1 KS27 ruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) ruct subway footing (KS27 west side, bay 1) op piling foundation pile cap (RWC2 type 5) oppe works (RWC2 Bay 48 to Bay 47) 157) Inclement weather (21/7/2021 to 20/8/2021) on RIW1 RWC2 type : earance & ELS works (KS27 east side) ruct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 teams) vorks for construct pile cap (FE1-PC1b, 32m, 1m/d) ruct RW footing (RWC2 type 6 [bay 48 to bay 47]) 148) Inclement weather 21/5/2021 to 20/6/2021 RWC2 type 1a, 1 & 2 ruct RW wall (RWC2 type 6 [bay 48 to bay 47]) 148) Inclement weather (21/4/2021 to 20/5/2021) on RIW1 NB CT5 ruct RW wall (RWC2 type 4 Bay 45 to Bay 38) 153) Inclement weather (21/6/2021 to 20/6/2021] on RIW1 NB CT5 is3) Inclement weather (21/6/2021 to 20/7/2021 RWC2 type 1a, 1 & 2 148) Inclement weather (21/6/2021 to 20/7/2021 RWC2 type 1a, 1 & 2<th>1064 548 525 96 38 90 12 130 11 24 90 59 30 11 90 59 30 11 90 300 36 24 60 3 90 60 12 14 60 12 14 12 14 12 14 12 12 11 12 11 12 143 66</th><th>01-Jun-20 A 04-Nov-20 A 04-Nov-20 A 06-May-21 A 05-Jul-21 A 15-Jul-21 A 15-Jul-21 A 17-Aug-21 A 17-Aug-21 A 17-Aug-21 A 17-Aug-21 A 21-Aug-21 21-Aug-21 21-Aug-21 21-Aug-21 30-Aug-21 30-Aug-21 30-Aug-21 16-Sep-21 27-Sep-21 20-Oct-21 27-Oct-21 01-Nov-21 01-Nov-21 02-Nov-21 02-Nov-21 03-Nov-21 18-Nov-21 18-Nov-21 18-Nov-21 18-Nov-21 18-Nov-21 18-Nov-21</th><th>28-Dec-22 09-Sep-22 19-Oct-21 28-Aug-21 04-Sep-21 30-Oct-21 21-Aug-21 07-Feb-22 28-Aug-21 15-Sep-21 07-Dec-21 07-Dec-21 07-Dec-21 03-Sep-21 15-Dec-21 09-Sep-22 30-Oct-21 26-Oct-21 02-Nov-21 23-Nov-21 21-Feb-22 13-Jan-22 16-Nov-21 17-Nov-21 29-Nov-21 03-Nov-21 21-Feb-22 13-Jan-22 16-Nov-21 17-Nov-21 29-Nov-21 03-Nov-21</th></th>	RIW1) ruct RW wall (RWC2 type 1a & 1 [Bay 2 to Bay 1]) 81) Non-Possession of Handovered Area Near Subway KS27 near Sar orks at RWC2 type 3 (7500 m3, 100 m3/d, 2 teams) D36B) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 RWC2 type : cation works to existing drainage pipe (near KS27 west side bay 2) 157) Inclement weather (21/7/2021 to 20/8/2021) on RIW1 KS27 ruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) ruct subway footing (KS27 west side, bay 1) op piling foundation pile cap (RWC2 type 5) oppe works (RWC2 Bay 48 to Bay 47) 157) Inclement weather (21/7/2021 to 20/8/2021) on RIW1 RWC2 type : earance & ELS works (KS27 east side) ruct socket H-pile works (RWC2 type 3; 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CON10274 Cut slo CON10650B (NCE1: CON10650C (NCE1: CON10650C (NCE1: CON10650C (NCE1: CON11330C (NCE1: CON1030C (NCE1: CON1030C (NCE1: CON20670 ELS to CON20670 Construction Works in Slope C3 (Portion CON20790 Construction Xoise Semi-Enclosure CON20910 Construction Noise Semi-Enclosure CON21654F (NCE1: CON21654F (NCE1: CON21654G (CE3:2) CON21654G Construction Noise Semi-Enclosure CON21654G Construction Seconstruction Seconseconstruction Seconstruction	oppe works (RWC2 type 4 Bay 45 to Bay 38) 153) Inclement weather 21/6/2021 to 20/7/2021 RWC2 type 1a, 1 & 2 148) Inclement weather (21/5/2021 to 20/6/2021) on RIW1 NB CT5 157) Inclement weather 21/7/2021 to 20/8/2021 RWC2 type 1a, 1 & 2 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 NB CT5 (RIW2) on B) o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	60 12 12 11 11 12 143 116 61	02-Nov-21 03-Nov-21 04-Nov-21 17-Nov-21 18-Nov-21 05-Jul-21 A	13-Jan-22 16-Nov-21 17-Nov-21 29-Nov-21
CON10650B (NCE1) CON11330B (NCE1) CON10650C (NCE1) CON11330C (NCE1) CON11330C (NCE1) CON11330C (NCE1) CON11330C (NCE1) CON11330C (NCE1) CON11330C (NCE1) CON20670 ELS to CON20790 Constr CON20774A Soil nai CON20910 Constr CON21654F (NCE1) CON21654F (NCE1) CON21654G (CE3) CON21654G Constr CON21670 Install p CON21670 Install p CON21670 Install p CON30654 (EWN 5) CON30654 (EWN 5) CON31330 Road w	153) Inclement weather 21/6/2021 to 20/7/2021 RWC2 type 1a, 1 & 2 148) Inclement weather (21/5/2021 to 20/6/2021) on RIW1 NB CT5 157) Inclement weather 21/7/2021 to 20/8/2021 RWC2 type 1a, 1 & 2 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 NB CT5 (RIW2) on B) o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	12 12 11 12 143 116 61	03-Nov-21 04-Nov-21 17-Nov-21 18-Nov-21 05-Jul-21 A	16-Nov-21 17-Nov-21 29-Nov-21
CON11330B (NCE1- CON10650C (NCE1- CON11330C CON11330C (NCE1- CON11330C (NCE1- CON11330C coad Improvement Works Location 2 (I Construction Works in Slope C3 (Portion CON20670 ELS to CON20670 CON20670 ELS to CON20790 Construction Koise Semi-Enclosure SE2 CON20910 Construction Noise Semi-Enclosure SE2 CON21654F (NCE1- CON21654F CON21654F (NCE1- CON21654G CONstruction Science CON21962 Construction science CON21964 CON21670 Install p construction Works Location 3 (I Construction Works Construction Science CON30654 (EWN 5 CON30654A CON31330 Road w NCE9	148) Inclement weather (21/5/2021 to 20/6/2021) on RIW1 NB CT5 157) Inclement weather 21/7/2021 to 20/8/2021 RWC2 type 1a, 1 & 2 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 NB CT5 (RIW2) on B) o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	12 11 12 143 116 61	04-Nov-21 17-Nov-21 18-Nov-21 05-Jul-21 A	17-Nov-21 29-Nov-21
CON10650C (NCE1: CON11330C (NCE1: CON11330C (NCE1: CON11330C (NCE1: CONSTRUCTION Works in Slope C3 (Portion 2 (I CON20670 ELS to CON20790 Construction Works CON20774A Soil nai CON20910 Construction Noise Semi-Enclosure SE2 CON21654F (NCE1: CON21654F (NCE1: CON21654G (CE33: CON21654G Construction Seconstruction Seconstr	157) Inclement weather 21/7/2021 to 20/8/2021 RWC2 type 1a, 1 & 2 153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 NB CT5 (RIW2) on B) o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	11 12 143 116 61	17-Nov-21 18-Nov-21 05-Jul-21 A	29-Nov-21
CON11330C (NCE1: coad Improvement Works Location 2 (I construction Works in Slope C3 (Portion CON20670 ELS to CON20790 Construction CON20774A Soil nai CON20910 Construction Noise Semi-Enclosure CON21654F (NCE1: CON21654F (NCE1: CON21654G (CE332 CON21654G Construction Subscription CON21654G Construction CON21654G Construction Subscription CON21664 Construction CON21670 Install p construction Works Construction Subscription CON30654 (EWN 8) CON30654A (NCE9) CON31330 Road w	153) Inclement weather (21/6/2021 to 20/7/2021) on RIW1 NB CT5 (RIW2) on B) o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) all works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	12 143 116 61	18-Nov-21 05-Jul-21 A	
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Construction Works in Slope C3 (Portion CON20670 ELS to CON20670 ELS to CON20790 Constru- Construction Noise Semi-Enclosure Soil nai CON20910 Constru- Construction Noise Semi-Enclosure SEZ CON21654F (NCE1: CON21654G (NCE1: CON21654G COS32 CON21654G Construction Section of the construction Works Construction Works CON30654 (EWN 1) CON30654A (NCE9) CON31330 Road w Road w	n B) p RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	116 61		0.1.1.1.1.1.1
CON20670 ELS to CON20790 Construction CON20774A Soil nail CON20910 Construction Construction Noise Semi-Enclosure SE2 CON21654F (NCE1: CON21654G (CE332) CON21654G Construction Section CON21654G Construction CON21664 Construction CON21664 Construction CON21670 Install p construction Works Construction CON30654 (EVN 1) CON30654A (NCE9) CON31330 Road w	o RW bay 9 to bay 13 formation ruct RW bay 9 to bay 13 base (L=30m) all works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	61	05-Jul-21 A	31-Jan-22
CON20790 Construction CON209774A Soil nail CON20910 Construction Construction Noise Semi-Enclosure SE2 CON21654F (NCE13) CON21654G (CE33) CON21961F Construction CON21962 Construction CON21964 Construction CON21670 Install p oad Improvement Works Location 3 (I Construction Works CON30654 CON30654A (NCE9) CON31330 Road w	ruct RW bay 9 to bay 13 base (L=30m) all works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)			03-Jan-22
CON20774A Soil nai CON20910 Construction Noise Semi-Enclosur SE2 CON21654F (NCE1: CON21961F (NCE1: CON219654G (CE332 CON219654G Construction Noise Semi-Enclosur CON21961F (NCE1: CON21962 Construction Section Se	ail works at RW3b (remaining area) ruct RW bay 14 to bay 16 base (L=19m)	66	05-Jul-21 A	06-Oct-21
CON20910 Construction Noise Semi-Enclosure SE2 CON21654F (NCE1: CON21654G (NCE1: CON21654G (CE332 CON21962 Construction Norks CON21964 Construction Section Sectin Section Section Sectin Section Section Section Sec	ruct RW bay 14 to bay 16 base (L=19m)		07-Oct-21	23-Dec-21
Construction Noise Semi-Enclosure SE2 CON21654F (NCE1: CON21961F (NCE1: CON219654G (CE332 CON21962 Construction CON21964 Construction CON21670 Install p oad Improvement Works Location 3 (I Construction Works CON30654 (EWN 4) CON30654A (NCE9) CON31330 Road w		30	07-Oct-21	11-Nov-21
CON21654F (NCE1: CON21961F (NCE1: CON21654G (CE332 CON21962 Construction CON21670 Install p oad Improvement Works Location 3 (I Construction Works CON30654 (EWN 4) CON30654A (NCE9) CON31330 Road w		42	12-Nov-21	03-Jan-22
CON21961F (NCE1: CON21961F (CE332 CON21962 Construction CON21964 Construction CON21670 Install p coad Improvement Works Location 3 (I Construction Works CON30654 (EWN 4) CON30654A (NCE9) CON31330 Road w	2 (Portion C)	143	11-Aug-21 A	31-Jan-22
CON21654G (CE332 CON21962 Construction CON21964 Construction CON30654 (EWN 4 CON30654A (NCE99 CON31330 Road w	157) Inclement weather 21/7/2021 to 20/8/2021 at SE2 (Bay4 to Bay13)	11	11-Aug-21 A	21-Aug-21
CON21962 Construction CON21964 Construction CON30654 (EWN 9 CON30654A (NCE99 CON31330 Road w	157) Inclement weather (21/7/2021 to 20/8/2021) on RIW2 NB	11	18-Aug-21 A	30-Aug-21
CON21964 Constru CON21670 Install p oad Improvement Works Location 3 (I Construction Works CON30654 (EWN 9 CON30654A (NCE9) CON31330 Road v	32) Construct piling fdn of SE2 (Bay4 to Bay13)	72	23-Aug-21	17-Nov-21
CON21964 Constru CON21670 Install p oad Improvement Works Location 3 (I Construction Works CON30654 (EWN 9 CON30654A (NCE9) CON31330 Road w	ruct piling platform SE2 (Bay 13 to Bay 19)	30	31-Aug-21	06-Oct-21
CON21670 Instal p oad Improvement Works Location 3 (I Construction Works CON30654 (EWN 9 CON30654A (NCE9) CON31330 Road v	ruct piling fdn SE2 Bay 13 to 19 with utilities potection works (74nos, 2d/r	96	07-Oct-21	31-Jan-22
Construction Works CON30654 (EWN CON30654A (NCE9 CON31330 Road v	pipe pile wall (CT4, SE2 Bay4 to Bay12; 230m 5m/d, 1 team)	48	18-Nov-21	15-Jan-22
Construction Works CON30654 (EWN CON30654A (NCE9 CON31330 Road v	(RIW3)	861	01-Jun-20 A	28-Dec-22
CON30654 (EWN 5 CON30654A (NCE9 CON31330 Road v	(()	861	01-Jun-20 A	28-Dec-22
CON30654A (NCE9 CON31330 Road v	50, EWN52, EWN57, EWN58) JV Pending WSD confirm SMPR waterr	177	01-Jun-20 A	30-Sep-21
CON31330 Road v	96) Conflict with unchart 400mm gasmain at Sau Mau Ping Road / Hiu K	177	17-Dec-20 A	30-Sep-21
	works (CH0 to CH40)	60	05-Jun-21 A	07-Sep-21
	works (Сното Снато) 110) Gasmain diversion (RIW3 SMPR) (by Towngas)	48	28-Jun-21 A	
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	48 371		23-Aug-21
	ope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)		19-Jul-21 A	28-Dec-22
	ruct RWD1 (bay 8 to bay 13) wall (2 teams)	60	21-Jul-21 A	29-Sep-21
	ruct RWD3 (CH60 to CH152)	150	09-Aug-21 A	26-Apr-22
	works at slope D1 (stage 4, 55% completed)	72	19-Aug-21 A	13-Nov-21
	concrete block & form working platform (Bay 14b to Bay 16)	12	24-Aug-21	06-Sep-21
	age & utilities works (bay 8 to bay 14)	60	25-Aug-21	05-Nov-21
	ruct RWD1 (bay 8 to bay 13) utilities works & backfill (2 teams)	60	25-Aug-21	05-Nov-21
•	pipe pile wall (around 32nos. 1d/no.+ setup) (Bay 14b to Bay 16)	36	07-Sep-21	21-Oct-21
	147) Inclement weather (21/4/2021 to 20/5/2021) on RIW3 Slope D3	3	08-Sep-21	10-Sep-21
	148) Inclement weather (21/5/2021 to 20/6/2021) on RIW3 Slope D3	12	11-Sep-21	25-Sep-21
	works (bay 8 to bay 14)	60	17-Sep-21	29-Nov-21
	153) Inclement weather (21/6/2021 to 20/7/2021) on RIW3 Slope D3	12	27-Sep-21	11-Oct-21
	age & utilities works (bay 1 to bay 7)	60	02-Oct-21	11-Dec-21
	ruct Twin Fresh Watermain CH50 to CH100	160	02-Oct-21	19-Apr-22
	ruct Twin Fresh Watermain CH270 to CH320	184	02-Oct-21	19-May-22
	ruct Fresh Watermain A CH320 to CH400 (EPD access)	180	02-Oct-21	14-May-22
CON30654B (NCE1-	147) Inclement weather (21/4/2021 to 20/5/2021) on RIW3 WM	3	02-Oct-21	05-Oct-21
•	148) Inclement weather (21/5/2021 to 20/6/2021) on RIW3 WM	12	06-Oct-21	20-Oct-21
CON31330D (NCE1	157) Inclement weather (21/7/2021 to 20/8/2021) on RIW3 Slope D3	11	12-Oct-21	25-Oct-21
CON30654D (NCE1	153) Inclement weather (21/6/2021 to 20/7/2021) on RIW3 WM	12	21-Oct-21	03-Nov-21
CON30412C ELS wo	, , , , , , , , , , , , , , , , , , , ,	12	22-Oct-21	04-Nov-21
CON30550 Road v	vorks and shotcrete (Bay 14b to Bay 16)	60	27-Oct-21	07-Jan-22



CON30654E CON30412D CON31170 CON31212 CON30412E CON30190 CON30650 Pedestrian Connectivity Fac Construction Works CON42510	(NCE157) Indement weather (21/7/2021 to 20/8/2021) on RIW3 WM Install UU support (Bay 14b to Bay 16) Soil nai works (11NE-D/F246, CH190 to CH260) Rock slope mapping (Stage 2) Pre-dril & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team) Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50 ccliity (PC-E11)	11 6 150 180 30 72 120	04-Nov-21 05-Nov-21 10-Nov-21 10-Nov-21 12-Nov-21	16-Nov-21 11-Nov-21 17-May-22 22-Jun-22	Aug Sep 44 45	Oct 46
CON30412D CON31170 CON31212 CON30412E CON30190 CON30650 Pedestrian Connectivity Factor Construction Works	Install UU support (Bay 14b to Bay 16) Soil nail works (11NE-D/F246, CH190 to CH260) Rock slope mapping (Stage 2) Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team) Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50	6 150 180 30 72	05-Nov-21 10-Nov-21 10-Nov-21	11-Nov-21 17-May-22		
CON31170 CON31212 CON30412E CON30190 CON30650 Pedestrian Connectivity Fac Construction Works	Soil nail works (11NE-D/F246, CH190 to CH260) Rock slope mapping (Stage 2) Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team) Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50	150 180 30 72	10-Nov-21 10-Nov-21	17-May-22		
CON31212 CON30412E CON30190 CON30650 Pedestrian Connectivity Fac Construction Works	Rock slope mapping (Stage 2) Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team) Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50	180 30 72	10-Nov-21	•		
CON30412E CON30190 CON30650 Pedestrian Connectivity Fac Construction Works	Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team) Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50	30 72		22-Jun-22		
CON30190 CON30650 Pedestrian Connectivity Fac Construction Works	Slope works at slope D1 (stage 5, 70% completed) Construct Twin Fresh Watermain CH10 to CH50	72	12-Nov-21			
CON30650 Pedestrian Connectivity Fac Construction Works	Construct Twin Fresh Watermain CH10 to CH50			16-Dec-21		
Pedestrian Connectivity Fac Construction Works		120	15-Nov-21	12-Feb-22		
Construction Works			17-Nov-21	13-Apr-22		
Construction Works		280	22-Mar-21 A	02-Mar-22		
		280	22-Mar-21 A	02-Mar-22		
CON42510						
	Erect roof steel frame, gutter & corrugated metal sheet E11-FB2	48	22-Mar-21 A	27-Aug-21		
CON42490	Erect roof steel frame, gutter & corrugated metal sheet E11-FB3	48	22-Mar-21 A	27-Aug-21		
CON42590	Erect roof steel frame, gutter & corrugated metal sheet E11-FB4	48	22-Mar-21 A	27-Aug-21		
CON42610	Erect roof steel frame, gutter & corrugated metal sheet E11-FB5	48	22-Mar-21 A	27-Aug-21		
CON42628B	Footing design review for Construct covered-walkway between PC-E11 & BBI	24	17-May-21 A	03-Sep-21		
CON42690	ABWF works @E11-FB2 & E11-FB4	107	24-May-21 A	24-Nov-21		
CON42710	ABWF works @E11-FB3 & E11-FB5	107	24-May-21 A	24-Nov-21		
CON42670	Install glass & window to lift tower no 2	41	21-Jul-21 A	06-Sep-21		
CON42870	E&M works to PC-E11 @LT2 (inside 2nos lift shaft)	24	04-Aug-21 A	31-Aug-21		
CON42772	ABWF works @LT2 (Other than lift shart area)	48	04-Aug-21 A	29-Sep-21		
CON42390B	(NCE148) Inclement weather (21/5/2021 to 20/6/2021) on E11	12	18-Aug-21 A	31-Aug-21		
CON42872	E&M works to PC-E11 @LT2 (Other than lift shart area)	36	01-Sep-21	15-Oct-21		
CON42390C	(NCE153) Inclement weather (21/6/2021 to 20/7/2021) on E11	12	01-Sep-21	14-Sep-21		
CON425390C	Construct covered-walkway between PC-E11 & BBI toilet	12	01-Sep-21	10-Feb-22		
CON42830 CON42390D	(NCE157) Inclement weather (21/7/2021 to 20/8/2021) on E11	120	15-Sep-21	28-Sep-21		1
		48		•		-
CON42470	Erect steel frame E11-FB1, construct floor slab & side planter		29-Sep-21	25-Nov-21		
CON42650	Install glass & window to lift tower no 1	21	29-Sep-21	25-Oct-21		-
CON42950	Lifts installation works in E11-LT2	90	16-Oct-21	04-Feb-22		
CON42730	ABWF works @LT1 (inside 2nos lift shaft)	12	26-Oct-21	08-Nov-21		
CON42570	Erect roof steel frame, gutter & corrugated metal sheet E11-FB1	42	05-Nov-21	23-Dec-21		
CON42830	E&M works to PC-E11 @LT1 (inside 2nos lift shaft)	12	09-Nov-21	22-Nov-21		
CON42732	ABWF works @LT1 (Other than lift shart area)	48	09-Nov-21	06-Jan-22		
CON42930	Lifts installation works in E11-LT1	90	11-Nov-21	02-Mar-22		
Pedestrian Connectivity Fac	cility (PC-E8)	340	02-Nov-20 A	26-Nov-21		
Construction Works		340	02-Nov-20 A	26-Nov-21		
CON43470	JV prepare, PM review, comment & acceptance works submission for construct	150	02-Nov-20 A	10-Sep-21		
CON41890	E&M works (P3 to P4)	60	08-Mar-21 A	23-Aug-21		
CON41730	3C Install escalator (E8-E13 & E8-E14) (P6 to ABT)	90	18-May-21 A	02-Sep-21		
CON41870	E&M works (P4 to P5)	60	12-Jul-21 A	18-Sep-21		
				•		
CON41910	E&M works (External)	38	12-Jul-21 A	24-Aug-21		
CON40628A	Slope 326 drawing reviewing	36	26-Jul-21 A	04-Sep-21		
CON41310	ABWF works (F9 & F1 to P1)	48	05-Aug-21 A	30-Sep-21		
CON41450	Landscaping works & reinstatement works	48	05-Aug-21 A	30-Sep-21		
CON41330	ABWF works (P1 to P2)	48	05-Aug-21 A	30-Sep-21		
CON41370	ABWF works (P2 to P3)	48	05-Aug-21 A	30-Sep-21		
CON41350	ABWF works (P3 to P4)	48	05-Aug-21 A	30-Sep-21		
CON41430	ABWF works (P4 to P5)	48	05-Aug-21 A	30-Sep-21		
CON41390	ABWF works (P5 to P6)	48	05-Aug-21 A	30-Sep-21		
CON41410	ABWF works (P6 to ABT)	48	05-Aug-21 A	30-Sep-21		
CON41450A	(NCE153) Inclement weather (21/6/2021 to 20/7/2021) on E8	12	02-Sep-21	15-Sep-21		
CON41750	T&C and Statutory Inspection to 14nos escalator PC-E8	30	03-Sep-21	09-Oct-21		
CON40630	Erect working platform (slope 326)	6	06-Sep-21	11-Sep-21		
CON43490	Erect working platform	12	11-Sep-21	25-Sep-21		
CON40650	Slope replacement works cycle 1 (slope 326)	12	13-Sep-21	05-Oct-21		
CON40030 CON41450B	(NCE157) Inclement weather (21/7/2021 to 20/8/2021) on E8	18	16-Sep-21	29-Sep-21		
		24		•		
CON43510	Construct concrete buttress wallRemove piling platform		27-Sep-21	26-Oct-21		
CON41470	External finishing works (F9 & F1 to P1)	48	30-Sep-21	26-Nov-21		
CON41490	External finishing works (P1 to P2)	48	30-Sep-21	26-Nov-21		
CON41510	External finishing works (P2 to P3)	48	30-Sep-21	26-Nov-21		
CON41530	External finishing works (P3 to P4)	48	30-Sep-21	26-Nov-21		
CON41590	External finishing works (P4 to P5)	48	30-Sep-21	26-Nov-21		
CON41550	External finishing works (P5 to P6)	48	30-Sep-21	26-Nov-21		
CON41570	External finishing works (P6 to ABT)	48	30-Sep-21	26-Nov-21		
CON40670	Slope replacement works cycle 2 (slope 326)	18	06-Oct-21	27-Oct-21		
CON40690	Slope replacement works cycle 3 (slope 326)	18	06-Oct-21	27-Oct-21		
CON43530	Remove working platform & site clearance	18	27-Oct-21	16-Nov-21		
CON40710	Slope replacement works cycle 4 (slope 326)	18	28-Oct-21	17-Nov-21		
Pedestrian Connectivity Fac		247	07-Apr-21 A	25-Jan-22		
_						
Construction Works		247	07-Apr-21 A	25-Jan-22		
CON50490	Install E&M (ELE/MVAC/PDS) incl. Pillar Box	106	07-Apr-21 A	28-Aug-21		
CON50470	Application for power supply & energization (SYA)	120	07-Apr-21 A	28-Aug-21		
CON50290B	(NCE148) Inclement weather (21/5/2021 to 20/6/2021) on Sys A	12	19-Aug-21 A	01-Sep-21		
Actual Work Remaining Work Milestone	Developme				Anderson Road Quarry Site - Investigation Design & Construction Road - Improvement Works & Pedestrian Connectivity Facilities 3-Month Rolling Programme	



Activity ID	Activity Name	Duration	Start	Finish			2021
					Aug	Sep	Sep Oct
CON50492	Temporary electrical change to permanent electrical	42	30-Aug-21	20-Oct-21	44	45	40 40
CON50290C	(NCE152) Inclement weather (21/6/2021 to 20/7/2021) on SysA	12	02-Sep-21	15-Sep-21			
CON50290D	(NCE157) Inclement weather (21/7/2021 to 20/8/2021) on Sys A	11	16-Sep-21	29-Sep-21			
CON50270	Erect bridge steel frame for SYA	48	30-Sep-21	26-Nov-21			
CON50330	ABWF works (lift tower & starcase)	96	30-Sep-21	25-Jan-22			
CON50390	Install window (phase 2)	90	30-Sep-21	18-Jan-22			
CON50370	Install window (phase 1)	90	30-Sep-21	18-Jan-22			
Pedestrian Connectivity	Facility System B (SYB)	168	21-Jun-21 A	11-Feb-22			
Construction Works		168	21-Jun-21 A	11-Feb-22			
CON52170	Construct superstructure SYB-LT1	168	21-Jun-21 A	11-Feb-22	1		
CON51450A	(NCE[TBA]) Unforseen gound condition affected install sheet pile	116	28-Jul-21 A	13-Dec-21			
CON51150D	(NCE157) Inclement weather (21/7/2021 to 20/8/2021) on Sys B	11	11-Aug-21 A	21-Aug-21			
CON51790	ТВА	42	21-Aug-21	11-Oct-21			
CON51510	ТВА	42	21-Aug-21	11-Oct-21			
CON51730	Construct pile cap SYB-PC4 (52m3)	39	23-Aug-21	08-Oct-21			
CON51690	Construct pile cap SYB-PC6 (120m3)	48	23-Aug-21	20-Oct-21			
CON52110	Construct pier SYB-P3 (2 pour) & temporary LT1 support	42	09-Oct-21	27-Nov-21			
CON52150	Construct pier SYB-P5 (3 pour)	72	09-Oct-21	05-Jan-22			
Bus-Bus Interchange Pu	blic Toilet (BBI Toilet)	365	30-Sep-20 A	29-Sep-21			
Works related to section	10A - Establishment Works for Landscape Softworks in Section 10	365	30-Sep-20 A	29-Sep-21			
CON43370	Establishment Works for Landscape Softworks in Section 10 (Portion FI)	365	30-Sep-20 A	29-Sep-21			

Actual Work

Remaining Work

NE/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2A 3-Month Rolling Programme

٠ Milestone

Page 3 of 3

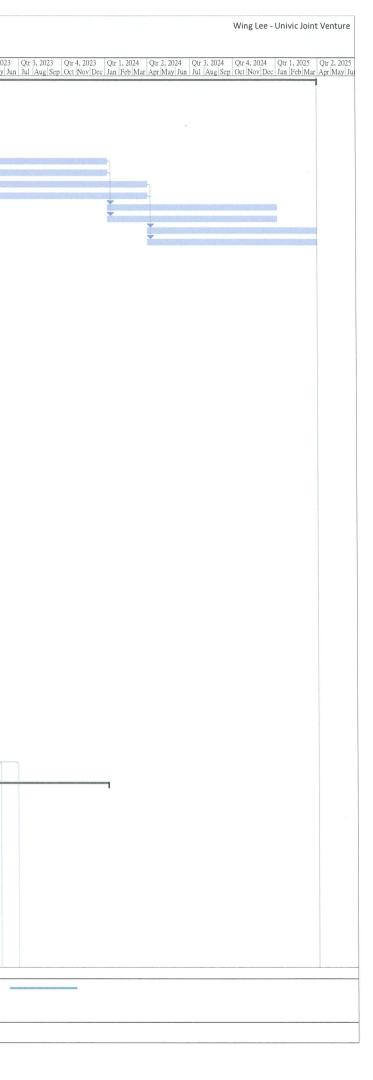


Contract 5 (NE/2019/02)

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Contract No. ED/2019/02
Development of Anderson Road Quarry Site -
Remaining Pedestrian Connectivity Facilities Works

ID	TaslT	ask Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2022 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023
	Moc							Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May J
1	P L	Development of Anderson Road Quarry Site - Remaining Pedestrian Connectivity Facilities Works	1461 days	Tue 30/3/21	Sat 29/3/25			
2	ن د ا	Contract Starting Date	1 day	Tue 30/3/21	Tue 30/3/21			
	E me	Possession of Site (Portion 1a, 2, 3a & 4b)	1 day	Tue 30/3/21	Tue 30/3/21		16,35,18,20,22,43,4,36,37,38,39,40,41,5,6,7,8,9,10	
	E	Possession of Site (Portion 1b)	1 day	Fri 30/7/21	Fri 30/7/21	3	70,272	
5		Possession of Site (Portion 3b)	1 day	Fri 30/7/21	Fri 30/7/21	3	222	Š
6	E ma	Possession of Site (Portion 4a)	1 day	Fri 30/7/21	Fri 30/7/21	3	244	Š
7	-	Construction Period of Section 1	1009 days	Wed 31/3/21	Wed 3/1/24	3	11	
8	-	Construction Period of Section 2	1009 days	Wed 31/3/21	Wed 3/1/24	3	12	
9	-	Construction Period of Section 3	1095 days	Wed 31/3/21	Fri 29/3/24	3	13	
10		Construction Period of Section 4	1095 days	Wed 31/3/21	Fri 29/3/24	3	14	
11		Construction Period of Section 1A	365 days	Thu 4/1/24	Thu 2/1/25	/		
12	-	Construction Period of Section 2A Construction Pperiod of Section 3A	365 days 365 days	Thu 4/1/24 Sat 30/3/24	Thu 2/1/25 Sat 29/3/25	8 9		
14		Construction Period of Section 4A	365 days	Sat 30/3/24	Sat 29/3/25	10		
15		Preliminary Work	310 days	Wed 31/3/21	Thu 3/2/22	10		
16	6	Mobilization of Site Accommodation	12 days	Wed 31/3/21	Sun 11/4/21	3	62,119,174,209,240,243,24,64	
17	-	Major Sub-contractor Submission	250 days	Wed 31/3/21	Sun 5/12/21			
18	-	Submit Proposed Landscaping Sub-contractor	7 days	Wed 31/3/21	Tue 6/4/21	3	19	
19	100 g	Accept Proposed Landscaping Sub-contractor	7 days	Wed 7/4/21	Tue 13/4/21	18	46,49	
20	1	Submit Proposed Traffic Consultant	7 days	Wed 31/3/21	Tue 6/4/21	3	21	
21	8	Accept Proposed Traffic Consultant	7 days	Wed 7/4/21	Tue 13/4/21	20	178	
22 23		Submit Proposed Independent Checking Engineer	14 days	Wed 31/3/21	Tue 13/4/21	3	23	
23	-	Accept Proposed Independent Checking Engineer Submit Proposed Ground Investigation Sub-contractor	14 days 14 days	Wed 14/4/21 Mon 12/4/21	Tue 27/4/21 Sun 25/4/21	22 16	25	
24		Accept Proposed Ground Investigation Sub-contractor	14 days 14 days	Mon 26/4/21	Sun 25/4/21 Sun 9/5/21	24	25 26,52	
26		Submit Proposed Piling Sub-contractor	28 days	Mon 10/5/21	Sun 9/5/21 Sun 6/6/21	25	20,32	
27		Accept Proposed Piling Sub-contractor	14 days	Mon 7/6/21	Sun 20/6/21	26	55,28,29	
28	-	Submit & Accept Proposed E&M Sub-contractor	56 days	Mon 21/6/21	Sun 15/8/21	27	58	
29	82	Submit & Accept Proposed Lift/Escalator Sub-contractor	56 days	Mon 21/6/21	Sun 15/8/21	27	30,31,58	
30		Submit & Accept Bearing Sub-contractor	56 days	Mon 16/8/21	Sun 10/10/21	29	59	
31	-	Submit & Accept Proposed Movement Joint Sub-contractor		Mon 16/8/21	Sun 10/10/21	29	32,33,34,59	
32		Submit & Accept Proposed Steelwork Sub-contractor Submit & Accept Proposed Waterproofing Sub-contractor	56 days 56 days	Mon 11/10/21 Mon 11/10/21		31 31	60	
34		Submit & Accept Proposed Road Marking Sub-contractor	56 days	Mon 11/10/21 Mon 11/10/21		31		
35		Contractural Submission	45 days	Wed 31/3/21	Fri 14/5/21	3		
36	-	Initial Photo Record	7 days	Wed 31/3/21	Tue 6/4/21	3		
37		Noise Mitigation Plan	7 days	Wed 31/3/21	Tue 6/4/21	3		
38	1	Safety Management Plan	30 days	Wed 31/3/21	Thu 29/4/21	3		
39	-	Environmental Managenet Plan	30 days	Wed 31/3/21	Thu 29/4/21	3		
40	-	Waste Management Plan Initial Condition Survey	30 days	Wed 31/3/21 Wed 31/3/21	Thu 29/4/21	3	65 101 177 045	
41		Technical Submission	45 days 310 days	Wed 31/3/21 Wed 31/3/21	Fri 14/5/21 Thu 3/2/22	2	65,121,177,245	
43		Prepare Method Statement of Initial Survey	14 days	Wed 31/3/21	Tue 13/4/21	3	44	
44	-	Review & Resubmit MS of Initial Survey	6 days	Wed 14/4/21	Mon 19/4/21	43	45	
45	1	Acceptance of MS of Iniial Survey	7 days	Tue 20/4/21	Mon 26/4/21	44	63,120,176,242	A CONTRACTOR OF A CONTRACTOR O
46	-	Prepare Method Statement of Tree Felling	14 days	Wed 14/4/21	Tue 27/4/21	19	47	
47	-	Review & Resubmit MS of Tree Felling	7 days	Wed 28/4/21	Tue 4/5/21	46	48	
48	-	Acceptance of MS of Tree Felling	14 days	Wed 5/5/21 Wed 14/4/21	Tue 18/5/21	47 19	66,122,179,246,273	X
50		Prepare Method Statement of Tree Transplanting Review & Resubmit MS of Tree Transplanting	14 days 14 days	Wed 14/4/21 Wed 28/4/21	Tue 27/4/21 Tue 11/5/21	49	50 51	
51		Acceptance of MS of Tree Transplanting	14 days	Wed 12/5/21	Tue 25/5/21	50	123	
52		Prepare Method Statement of Ground Investigation	14 days	Mon 10/5/21	Sun 23/5/21	25	53	
53	-	Review & Resubmit MS of Ground Investigation	14 days	Mon 24/5/21	Sun 6/6/21	52	54	
54	-	Acceptance of MS of Ground Investigation	14 days	Mon 7/6/21	Sun 20/6/21	53	70,127,185,248	
55	181 <u>1</u> 3	Prepare Method Statement of Piling Works	28 days	Mon 21/6/21	Sun 18/7/21	27	56	
56 57	-	Review & Resubmit MS of Piling Works	14 days	Mon 19/7/21 Mon 2/8/21	Sun 1/8/21 Sun 15/8/21	55 56	57	
58	83 87	Acceptance of MS of Piling Works Submit & Accept of Lift & E&M Submission	14 days 60 days	Mon 2/8/21 Mon 16/8/21	Thu 14/10/21	28,29	129,186,72 87,142,191,218,253,277	
59		Submit & Accept of Ent & Letty Submission Submit & Accept bearing & MJ Submission	60 days	Mon 11/10/21		30,31	89,144,192,220,257,281	
60		Submit & Accept Steelwork submission	60 days	Mon 6/12/21	Thu 3/2/22	32	98,153,222,283	
61	-	Section 1 - E5 Escalator (Portion 1a & 1b)	997 days	Mon 12/4/21	Wed 3/1/24			
62	₩	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16		100%
63	1	Initial Survey	21 days	Tue 27/4/21	Mon 17/5/21	45	65	100%
64	13	Coordination with Housing Authority for Access	36 days	Mon 12/4/21	Mon 17/5/21	16	65	100%
65 66	1	Erection of Site Hoarding Tree Felling	21 days 59 days	Tue 18/5/21 Tue 8/6/21	Mon 7/6/21 Thu 5/8/21	63,41,64 65,48	66 67	
67		Trial Pit Excavation	7 days	Tue 6/7/21	Mon 12/7/21	65,48 66	68,69	100%
68	1	Utilities Diversion	21 days	Tue 13/7/21	Mon 2/8/21	67	70,71	100%
69		Installation of Monitoring & Instrumentation Point	21 days	Tue 13/7/21	Mon 2/8/21	67		100%
70	100	Ground Investigation & install piezometer	45 days	Tue 3/8/21	Thu 16/9/21	68,54,4		100%
71	=	Fell Additional Trees (EWN001)	45 days	Tue 3/8/21	Thu 16/9/21	68	72	
72	-	Form piling platform on Existing slope	102 days	Fri 17/9/21	Mon 27/12/21	71,57	74	
73	-	Piling Works	190 days	Tue 28/12/21		70	75.70	
74 75		At Pile Cap E5-PC3 (12 nrs of 610mm PSH Piles) At Pile Cap E5-PC2 (16 nrs of 610mm PSH Piles)	50 days	Tue 28/12/21		72 74	75,79	
75		At Pile Cap E5-PC2 (16 nrs of 610mm PSH Piles) At Pile Cap E5-PC1 (16 nrs of 610mm PSH Piles)	70 days 70 days	Wed 16/2/22 Wed 27/4/22		74 75	76,80 77	
	->		, o augo		100 311122	1.5		
D		Task	Summary		In	active Milestone	Duration-only	Start-only E External Milestone \diamond Manual Progress
	t: Contr Tue 31/	ract No. ED/2019/02	Project Summa	ry l		active Summary	Manual Summary Rollup	Finish-only Deadline
Date:	1 UC 31/	Milestone	Inactive Task			anual Task	Manual Summary	External Tasks Progress
								Page 1

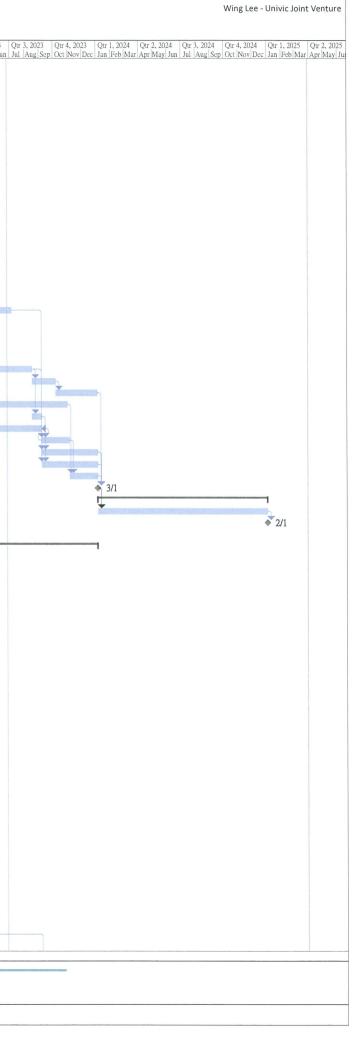


Contract No. ED/2019/02

Development of Anderson Road Quarry Site -Remaining Pedestrian Connectivity Facilities Works

First Programme

Rema	ining Peo	destrian Connectivity Facilities Works							
ID	Tasl Ta Moc	isk Name	Duration	Start	Finish	Predecessors	Successors		1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 2, 2023 Qtr 2, 2024 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023
77	WICC	Loading Test of Piling	30 days	Wed 6/7/22	Thu 4/8/22	76	81		Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
78		Excavation	230 days	Wed 16/2/22	Mon 3/10/22				
79		For Pile Cap E5-PC3	75 days	Wed 16/2/22	Sun 1/5/22	74	83		
80	100 A	For Pile Cap E5-PC2	75 days	Wed 27/4/22	Sun 10/7/22	75	84		
81		For Pile Cap E5-PC1		Fri 5/8/22	Mon 3/10/22	77	85		
82	*	Pile Cap Construction		Mon 2/5/22	Tue 22/11/22	70	01		
83 84	-	For Pile Cap E5-PC3	60 days	Mon 2/5/22	Thu 30/6/22		91		
85		For Pile Cap E5-PC2 For Pile Cap E5-PC1	60 days 50 days	Mon 11/7/22 Tue 4/10/22	Thu 8/9/22 Tue 22/11/22	80 81	87 88		
86		Construction of Piers	135 days	Fri 9/9/22	Sat 21/1/23	01	00		
87		For Pier E5-P2	42 days	Fri 9/9/22	Thu 20/10/22	84.58	91		
88		For Pier E5-P1	60 days	Wed 23/11/22		85	89		
89		Installation of Bearing	7 days	Sun 22/1/23	Sat 28/1/23	88,59	92		
90		Construction of Escalator Trough	160 days	Fri 21/10/22	Wed 29/3/23				
91		From PC3 - PC2	60 days	Fri 21/10/22	Mon 19/12/22	87,83	95		
92	1	From PC2 - PC1	60 days	Sun 29/1/23	Wed 29/3/23	89	96		
93		Installation of Escalator	285 days	Sat 23/7/22	Wed 3/5/23				
94		Procument & Delivery of Escalator Material	150 days	Sat 23/7/22	Tue 20/12/22		00000		
95 96	-	From PC3 - PC2 From PC2 - PC1	35 days	Tue 20/12/22	Mon 23/1/23	91	98,94SF		
90		Ordering of steel frame, roofing panels & fall arrest system	35 days 120 days	Thu 30/3/23 Thu 5/1/23	Wed 3/5/23 Thu 4/5/23	92	98,106,101 98		
98		Erection of Canopy	60 days	Fri 5/5/23	Mon 3/7/23	96,95,60,97	109		
99		Design Submission and Approval of A&A Works	300 days	Thu 5/5/22	Tue 28/2/23	50,55,00,57	100		
100	87.	Connection of Existing lift tower	60 days	Wed 1/3/23	Sat 29/4/23	99	101		
101		Installation of Movement Joint	14 days	Thu 4/5/23	Wed 17/5/23	96,100	103		
102	E ang	Ordering of balustrades, barriers & architectural features	120 days	Wed 18/1/23	Wed 17/5/23		103		
103	1	Finishing Work	90 days	Thu 18/5/23	Tue 15/8/23	101,102	107,110,111,1	04	
104	1	Remove existing soil nail	50 days	Wed 16/8/23	Wed 4/10/23	103	105		
105	-	Backfill pile caps & Reinstate existing Slope & Retaining wall		Thu 5/10/23	Tue 2/1/24	104	113		
106	mg.	Telemetry & Power Supply System	180 days	Thu 4/5/23	Mon 30/10/23		112		
107		Construction of Pillar Box	21 days	Wed 16/8/23	Tue 5/9/23	103	109,110,111		
108	-	Procument & Delivery of E&M Material	150 days	Sun 9/4/23	Wed 6/9/23	109SF	112 10900		
110		E & M Installation & Lighting Installation Drainage & Misc. Road Works	60 days 120 days	Wed 6/9/23 Wed 6/9/23	Sat 4/11/23 Wed 3/1/24	98,107 107,103	112,108SF 113		
111		Landscaping Works	120 days 120 days	Wed 6/9/23	Wed 3/1/24 Wed 3/1/24	107,103	113		
112		Testing & Commissioning	60 days	Sun 5/11/23	Wed 3/1/24	109,106	113		
113	100	Section 1 Completion	0 days	Wed 3/1/24	Wed 3/1/24	112,110,105,111	115		
114		Section 1A - Establishment Works (Portion 1a & 1b)	365 days	Thu 4/1/24	Thu 2/1/25	,,,			
115		Establishment Works	365 days	Thu 4/1/24	Thu 2/1/25	113	116		
116	-	Section 1A Completion	0 days	Thu 2/1/25	Thu 2/1/25	115			
117	10 A								
118		Section 2 - E6 Escalator (Portion 2)	997 days	Mon 12/4/21	Wed 3/1/24	17			
119 120	1	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16	101.104		
120	9	Initial Survey Erection of Site Hoarding	18 days 24 days	Tue 27/4/21	Fri 14/5/21	45	121,124 122,123		100%
121		Tree Felling	24 days 21 days	Sat 15/5/21 Tue 8/6/21	Mon 7/6/21 Mon 28/6/21	120,41 121,48	122,125		
123		Tree Transplanting	88 days	Tue 8/6/21	Fri 3/9/21	121,40	125		100%
124	1 mg	Coordination with HD for access & facilities relocation	45 days	Sat 15/5/21	Mon 28/6/21	121,51	125		100%
125		Take up park facilities & Furniture	21 days	Tue 29/6/21	Mon 19/7/21	122,124	126		100%
126	N 1887	Installation of Monitoring & Instrumentation Point	12 days	Tue 20/7/21	Sat 31/7/21	125			100%
127	1	Ground Investigation	45 days	Sat 4/9/21	Mon 18/10/21		129		100%
128	88 <u>7</u>	Piling Works	200 days	Tue 19/10/21	Fri 6/5/22				
129	23	At Pile Cap E6-PC3 (12 nrs of 610mm PSH Piles)	60 days	Tue 19/10/21	Fri 17/12/21	127,57	130,134		Textores_
130	-	At Pile Cap E6-PC2 (16 nrs of 610mm PSH Piles)	80 days	Sat 18/12/21	Mon 7/3/22	129	131,135		
131		At Pile Cap E6-PC1 (16 nrs of 610mm PSH Piles)	60 days	Tue 8/3/22	Fri 6/5/22	130	132		
132 133	-	Loading Test of Piling	30 days	Sat 7/5/22	Sun 5/6/22	131	136		
135	1973	Excavation	230 days	Sat 18/12/21	Thu 4/8/22	120	120		
134		For Pile Cap E6-PC3 For Pile Cap E6-PC2	60 days 75 days	Sat 18/12/21 Tue 8/3/22	Tue 15/2/22 Sat 21/5/22	129 130	138 139		
136		For Pile Cap E6-PC1	60 days	Mon 6/6/22	Thu 4/8/22	132	139		
137		Pile Cap Construction	220 days	Wed 16/2/22	Fri 23/9/22		110		
138		For Pile Cap E5-PC3	50 days	Wed 16/2/22	Wed 6/4/22	134	146		
139	-	For Pile Cap E5-PC2	50 days	Sun 22/5/22	Sun 10/7/22	135	142		
140	-	For Pile Cap E5-PC1	50 days	Fri 5/8/22	Fri 23/9/22	136	143		
141	-	Construction of Piers	135 days	Mon 11/7/22	Tue 22/11/22				
142		For Pier E5-P2	42 days	Mon 11/7/22	Sun 21/8/22	139,58	146		
143	3	For Pier E5-P1	60 days	Sat 24/9/22	Tue 22/11/22		144		
144	-	Installation of Bearing	7 days		Tue 29/11/22	143,59	147		
145 146		Construction of Escalator Trough	160 days	Mon 22/8/22		140 100	150		
140		From PC3 - PC2 From PC2 - PC1	60 days	Mon 22/8/22 Wed 30/11/22	Thu 20/10/22	142,138 144	150 151		
147		Installation of Escalator	60 days 285 days	Tue 24/5/22	Sat 28/1/23 Sat 4/3/23	144	101		
140		Procument & Delivery of Escalator Material	150 days	Tue 24/5/22	Fri 21/10/22	150SF			
150		From PC3 - PC2	35 days	Fri 21/10/22	Thu 24/11/22		153,149SF		
150		From PC2 - PC1	35 days	Sun 29/1/23	Sat 4/3/23	140	153,156,163		
152		Ordering of steel frame, roofing panels & fall arrest system	120 days	Sat 5/11/22	Sat 4/3/23		153		
Projec	t: Contra	act No. ED/2019/02	Summary		Ina	active Milestone		Duration-only	Start-only E External Milestone \diamond Manual Progress -
	Tue 31/8	0.1	Project Summary	y D	0 Ina	ctive Summary	0	Manual Summary Rollup	Finish-only Deadline
	0	Milestone 🔶	Inactive Task		Ma	inual Task		Manual Summary	External Tasks Progress
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Contract No. ED/2019/02 Development of Anderson Road Quarry Site -Remaining Pedestrian Connectivity Facilities Works

Kemaning Feue	Strian Connectivity Facilities works						
ID Tasl Task	x Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr
153 Moc	Erection of Canopy	60 days	Sun 5/3/23	Wed 3/5/23	151,60,150,152	163	Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul
153	Design Submission and Approval of A&A Works	300 days	Wed 20/10/21		151,00,150,152	155	
155	Connection of Existing lift tower	60 days	Tue 16/8/22	Fri 14/10/22	154	155	
156	Installation of Movement Joint	14 days	Sun 5/3/23	Sat 18/3/23	151,155	158	
157	Ordering of balustrades, barriers & architectural features	14 days 120 days	Sat 19/11/22	Sat 18/3/23	101,100	158	
158	Finishing Work	90 days	Sun 19/3/23	Fri 16/6/23	156,157	158	
	Backfill pile caps	60 days	Sat 17/6/23	Tue 15/8/23	158	159,100	
	Telemetry & Power Supply System	180 days	Sat 17/6/23	Wed 13/12/23		101	
	Construction of Pillar Box	21 days	Wed 16/8/23	Tue 5/9/23	158	163,164	
						163,164	
	Procument & Delivery of E&M Material	150 days	Sun 9/4/23 Wed 6/9/23	Wed 6/9/23 Sat 4/11/23	163SF	167 16085	
1.61	E & M Installation & Lighting Installation Drainage & Misc. Road Works	60 days	Wed 6/9/23 Wed 6/9/23	Sat 4/11/23 Sat 4/11/23	151,161,153	167,162SF 165,166	
	Reinstatement of park facilities	60 days	Sun 5/11/23	Wed 3/1/24	161 164	168	
	Landscaping Works	60 days	Sun 5/11/23 Sun 5/11/23		164		
	Testing & Commissioning	60 days	Sun 5/11/23 Sun 5/11/23	Wed 3/1/24 Wed 3/1/24	164	168 168	
	Section 2 Completion	60 days	Wed 3/1/24	Wed 3/1/24 Wed 3/1/24		170	
	Section 2 A - Establishment Work (Portion 2)	<i>0 days</i> 365 days	Thu 4/1/24	Thu 2/1/25	165,167,166	170	
1	Establishment Works	365 days	Thu 4/1/24 Thu 4/1/24	Thu 2/1/25	168	171	
	Section 2A Completion	0 days	<i>Thu 2/1/24 Thu 2/1/25</i>	<i>Thu 2/1/25</i>	170	1/1	
171	Section 2A Completion	Uuays	1114 2/1/25	1114 2/1/25	170		
	Section 3 - E7 Bridge (Portion 3a & 3b)	1083 days	Mon 12/4/21	Fri 29/3/24			
175	Site Clearance	15 days	Mon 12/4/21	Mon 26/4/21	16	176	100%
175	E7 Lift Tower	1081 days	Wed 14/4/21	Fri 29/3/24	10	170	100%
176	Initial Survey	18 days	Tue 27/4/21	Fri 14/5/21	174,45	177	→ 100%
177	Erection of Site Hoarding	21 days	Sat 15/5/21	Fri 4/6/21	176,41	179,180	
178	TTA for Site Entrance & Bus Stop Relocation	52 days	Wed 14/4/21	Fri 4/6/21	21	179,180	
179							100%
	Tree Felling Trial Pit Excavation	93 days	Sat 5/6/21	Sun 5/9/21 Tue 22/6/21	177,48,178	182FF 181	€ 1000 1000
		18 days	Sat 5/6/21		177		100%
181	Installation of Monitoring & Instrumentation Point	100 days	Wed 23/6/21	Thu 30/9/21	180 170FF	187 185EE 5 davia 182EE 5 davia 184EE 5 davia	50%
182	Fell Additional Trees (P-T00260; PMI No.8)	42 days	Mon 26/7/21	Sun 5/9/21	179FF	185FF+5 days,183FF+5 days,184FF+5 days	
	Street Light Relocation	42 days	Sat 31/7/21	Fri 10/9/21	182FF+5 days	186	
	Diversion of existing staircase Installation Piezometer & Ground Investigation	42 days	Sat 31/7/21	Fri 10/9/21	182FF+5 days	104	
		35 days	Sat 7/8/21 Sat 11/9/21	Fri 10/9/21 Tue 9/11/21	54,182FF+5 days 57,183,185	186 187	
	Form piling platform on Existing slope Piling Work (68 nrs of 323mm Mini-piles)	60 days 180 days	Wed 10/11/21		186,181	187	
	Loading Test		Mon 9/5/22	Tue 7/6/22	180,181	189	
	-	30 days					
	Excavation of pile cap	90 days	Wed 8/6/22	Mon 5/9/22	188	190	
190	Pile Cap Construction	45 days	Tue 6/9/22	Thu 20/10/22		191	
191	Construction of Lift Tower (9 Pours)	210 days	Fri 21/10/22	Thu 18/5/23	190,58	192,194SS+150 days,195	
192	Installation of Bearing	7 days	Fri 19/5/23	Thu 25/5/23	191,59	225	
193 🗄 🖏	Fabrication of Lourves & Glazing	150 days	Fri 21/10/22	Sun 19/3/23		194	
194	Installation of Lourves & Glazing	120 days	Mon 20/3/23	Mon 17/7/23		3 198,202SS+60 days,200,203	
195 📑	Telemetry & Power Supply System	180 days	Fri 19/5/23	Tue 14/11/23		196	
196	Construction of Pillar Box	21 days		Tue 5/12/23	195		
197 🔤	Procument & Delivery of Lift Material	150 days	Sat 18/2/23	Tue 18/7/23	198SF		
198	Lift Installation	150 days	Tue 18/7/23	Thu 14/12/23		207,197SF	9
199 🔤	Procument & Delivery of E&M Material	150 days	Sat 18/2/23	Tue 18/7/23	200SF		
200	E & M Installation & Lighting Installation	196 days	Tue 18/7/23		194	207,199SF	9
201 🖪 🖏	Ordering of balustrades, barriers & architectural features	120 days	Thu 19/1/23	Thu 18/5/23		202	
202	Finishing Work of Lift Tower	120 days	Fri 19/5/23	Fri 15/9/23	194SS+60 days,201	204	
203	Waterpoofing & Installation of Fall Arrest System	60 days	Tue 18/7/23	Fri 15/9/23	194		
204 🔤	Removal of scaffolding	46 days	Sat 16/9/23	Tue 31/10/23		205	
205 🚌	Backfill and Reinstate existing slope	90 days	Wed 1/11/23	Mon 29/1/24	204	206	
206 🚎	Underground drainage & water main works	60 days	Tue 30/1/24	Fri 29/3/24	205	234	
207	Testing & Commissioning	60 days	Tue 30/1/24	Fri 29/3/24	200,198	234	
208	E7 Pier	1083 days	Mon 12/4/21	Fri 29/3/24			
209	Prepare & Endorse TTA scheme by TMLG	60 days	Mon 12/4/21	Thu 10/6/21	16	210	100%
210	Application of Excavation Permit	180 days	Fri 11/6/21	Tue 7/12/21	209	211	030%
211	Implementation of TTA at carriageway	14 days	Wed 8/12/21	Tue 21/12/21	210	212	
212	Installation of Monitoring & Instrumentation Point	7 days		Tue 28/12/21		213	
213	Trial Pit Excavation	21 days		Tue 18/1/22	212	214,215	
214	Relocation of street light post	21 days	Wed 19/1/22		213	216	
215	Utilities Diversion	150 days	Wed 19/1/22		213	216	
216	Excavation of footing	180 days	Sat 18/6/22	Wed 14/12/22		217	
217	Construction of Footing E7-F2	45 days		Sat 28/1/23	216	218	
218	Construction of Pier E7-P1 (4 Poues)	90 days	Sun 29/1/23	Fri 28/4/23	217,58	220,222,219	
219	Allowable for achievement of concrete strength	27 days	Sat 29/4/23	Thu 25/5/23	217,58	225	
220	Installation of Bearing	7 days	Sat 29/4/23	Fri 5/5/23	218,59	225	
221	Submit & obtain BD's approval for A&A Works at Carpark		Mon 31/10/22		222SF	And And and	
222	Forming support for steel bridge at Carpark	7 days	Sat 29/4/23	Fri 5/5/23	218,60,5	225,221SF	
223	Ordering of steel frame, roofing panels & fall arrest system		Sat 29/4/23 Sat 26/11/22	Sat 25/3/23	210,00,0	225,2213F	
223	Fabrication of Steel Bridge	60 days	Mon 27/3/23	Fri 26/5/23	225SF,223		
225	Erection of Steel Bridge	28 days	Fri 26/5/23	Thu 22/6/23	220,222,219,192	226,224SF	
	Election of Dicer Diluge		Fri 23/6/23	Thu 22/0/23 Thu 27/7/23	225	220,2243F 227,230	
226	Construction of Concrete slab	35 dave			tele 1	221,200	
226	Construction of Concrete slab	35 days				228 231	
226 3 227 3	Construction of Concrete slab Construction of Roofing System	35 days 60 days	Fri 28/7/23	Mon 25/9/23		228,231	
227	Construction of Roofing System	60 days		Mon 25/9/23	226		Print colu
227 Res	Construction of Roofing System t No. ED/2019/02	60 days	Fri 28/7/23	Mon 25/9/23	226 active Milestone	Duration-only	Start-only E External Milestone I Manual Progress
227	Construction of Roofing System t No. ED/2019/02 Task Split Split	60 days Summary Project Summa	Fri 28/7/23	Mon 25/9/23	226 active Milestone active Summary	Duration-only J	Finish-only] Deadline
227 Res	Construction of Roofing System t No. ED/2019/02	60 days	Fri 28/7/23	Mon 25/9/23	226 active Milestone	Duration-only	
227 Res	Construction of Roofing System t No. ED/2019/02 Task Split Split	60 days Summary Project Summa	Fri 28/7/23	Mon 25/9/23	226 active Milestone active Summary	Duration-only Manual Summary Rollup Manual Summary	Finish-only] Deadline



evel	opment	ED/2019/02 of Anderson Road Quarry Site - destrian Connectivity Facilities Works					<u>F</u>	<u>irst Programme</u>
	Tasł Ta Moc	ask Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Ju
228		E & M Installation & Lighting Installation	90 days	Tue 26/9/23	Sun 24/12/23	227	234	reb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Ju
229	Ē m	Design Submission and Approval of A&A Works	300 days	Sat 1/10/22	Thu 27/7/23		230	
30		Connection of Existing car park	60 days	Fri 28/7/23	Mon 25/9/23	226,229	250	
31		Installation of Movement Joint	7 days	Tue 26/9/23	Mon 2/10/23	227	232	
32		Finishing work of bridge deck	120 days	Tue 3/10/23	Tue 30/1/24	231	233	
33		Landscaping Works	59 days	Wed 31/1/24	Fri 29/3/24	232	234	
34		Section 3 Completion	0 days	Fri 29/3/24	Fri 29/3/24	206,207,228,233	236	
35		Section 3A - Establishment Works (Portion 3a & 3b)	365 days	Sat 30/3/24	Sat 29/3/25	200,207,220,233	250	
36		Establishment Works	365 days	Sat 30/3/24	Sat 29/3/25	234	237	
37		Section 3A Completion	0 days	Sat 29/3/25	Sat 29/3/25	236	251	
38		Societ Sri Compicien	0 days	<i>Bal 27/3/23</i>	Dat 2715125	250		
39		Section 4 - E10 Bridge (Portion 4a & 4b)	1083 days	Mon 12/4/21	Fri 29/3/24			
40	1	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16	242	100%
41		E10 Lift Tower	1083 days	Mon 12/4/21 Mon 12/4/21	Fri 29/3/24	10	212	10070
		Initial Survey	14 days	Wed 12/5/21	Tue 25/5/21	240,45		100%
43		Prepare & Endorse TTA scheme by TMLG	60 days	Mon 12/4/21	Thu 10/6/21	16	244	
44	1	Implement TTA to form site entrance		Thu 26/8/21	Thu 10/8/21 Thu 26/8/21	243.6	244 245	100%
44	1		l day			Not concern a co		100%
	-	Erection of Site Hoarding	14 days	Fri 27/8/21	Thu 9/9/21	244,41	246	●
46	-	Tree Felling	14 days	Fri 10/9/21	Thu 23/9/21	245,48	249SS,247SS+9 days,248SS	
47	-	Installation of Monitoring & Instrumentation Point	14 days	Sun 19/9/21	Sat 2/10/21	246SS+9 days		2m
	E ang	Installation Piezometer & Ground Investigation	23 days	Fri 10/9/21	Sat 2/10/21	246SS,54		- And
49	-	Fell Additional Trees (EWN001)	23 days	Fri 10/9/21	Sat 2/10/21	246SS	250	
50	-	Excavation of Footing E10-FT1	240 days	Sun 3/10/21	Mon 30/5/22	249	251	
51	-	Construction of Footing	45 days	Tue 31/5/22	Thu 14/7/22	250	252	
52	1	Erection of Tower Crane	45 days	Fri 15/7/22	Sun 28/8/22	251	253	
53		Construction of Lift Tower (12 pours)	300 days	Mon 29/8/22	Sat 24/6/23	252,58	254SS+30 days,256SS+240 days,257	
54		Backfill of E10-PT1	60 days	Wed 28/9/22	Sat 26/11/22	253SS+30 days	258	
55		· Fabrication of Lourves & Glazing	150 days	Sat 26/11/22	Mon 24/4/23		256	
56		Installation of Lourves & Glazing	120 days	Wed 26/4/23	Wed 23/8/23	253SS+240 days,255	261,265SS+60 days,263,266	
57	-	Installation of Bearing	7 days	Sun 25/6/23	Sat 1/7/23	253,59	286	
58	-	Telemetry & Power Supply System	180 days	Sun 27/11/22	Thu 25/5/23	254	259	
59	-	Construction of Pillar Box	21 days	Fri 26/5/23	Thu 15/6/23	258	263	
60		Procument & Delivery of Lift Material	150 days	Mon 27/3/23	Thu 24/8/23	261SF	all contract.	
61		Lift Installation	90 days	Thu 24/8/23	Tue 21/11/23	256	267,260SF	
62		Procument & Delivery of E&M Material	150 days	Mon 27/3/23	Thu 24/8/23	263SF		
63		E & M Installation & Lighting Installation	160 days	Thu 24/8/23	Tue 30/1/24	256,259	270,262SF	
264		Ordering of balustrades, barriers & architectural features	120 days	Sat 25/2/23	Sat 24/6/23	200,200	265	
65		Finishing Work of Lift Tower	140 days	Sun 25/6/23	Sat 11/11/23	256SS+60 days,264	267	
66		Waterpoofing & Installation of Fall Arrest System	60 days	Thu 24/8/23	Sun 22/10/23	256 azys,204	201	
.67		Removal of scaffolding	30 days		Thu 21/12/23	265,261	268	
.68	-	Ground Level Drainage & water main laying	40 days	Fri 22/12/23	Tue 30/1/24	265,261	268	
69	-							
	-	Reinstatement and Misc. Roadwork	59 days	Wed 31/1/24	Fri 29/3/24	268	295	
270	-	Testing & Commisioning	59 days		Fri 29/3/24	263	295	
71	-	Pier & Abutment	<u>973 days</u>	Sat 31/7/21	Fri 29/3/24			
272	-	Form Haul Road	90 days	Sat 31/7/21	Thu 28/10/21	4	273	€ and a second b
273	-	Tree Felling	14 days	Fri 29/10/21	Thu 11/11/21		274	
74		Excavation of Footing E10-FT2	120 days	Fri 12/11/21	Fri 11/3/22	273	278,275	
275	-	Excavation of Footing E10-FT3	150 days	Sat 12/3/22	Mon 8/8/22	274	276	
276	-	Construction of Footing E10_FT3	45 days	Tue 9/8/22	Thu 22/9/22	275	277	
277		Construction of Abutment on FT3	90 days	Fri 23/9/22	Wed 21/12/22	276,58	281,283	
78	200	Construction of Footing E10-FT2	30 days	Sat 12/3/22	Sun 10/4/22	274	279	×

278

279

281,60,277

286SF,284

286

292

293

000

280,281,283,257

269,270,289,294

280

286

286.283

285

286,282SF

287,285SF

288,291

289,292

295

291

292

293

294

295

297

200

Sat 9/7/22

Tue 2/5/23

Sun 2/7/23

Sat 29/7/23

Sat 2/9/23

Sat 2/9/23

Sun 3/3/24

Fri 29/3/24

Fri 29/3/24

Sat 29/3/25

Set 20/2/25

Wed 1/11/23 287

Mon 19/2/24 288

Wed 1/11/23 287,290

Wed 8/11/23 288,291

Thu 22/12/22 Wed 28/12/22 277,59

Thu 29/12/22 283SF

90 days

27 days

7 days

20 days

60 days

28 days

35 days

60 days

110 days

300 days

60 days

116 days

26 days

0 days

265 day

365 days

7 days

Mon 11/4/22

Sat 2/7/22

Tue 3/1/23

Wed 3/5/23

Sun 2/7/23

Sun 30/7/23

Sun 3/9/23

Thu 2/11/23

Mon 7/11/22

Sun 3/9/23

Thu 2/11/23

Thu 9/11/23

Mon 4/3/24

Fri 29/3/24

Sat 30/3/24

Sat 20/2/24

Sun 10/7/22 Fri 5/8/22

Thu 29/12/22 Tue 17/1/23

Installation of Bearing

Fabrication of Steel Bridge

Construction of Concrete slab

Construction of Roofing System

Installation of Movement Joint

Finishing work of bridge deck

Section 4A - Establishment Works (Portion 4a & 4b)

Landscaping Works

Section 4A Completion

Section 4 Completion

Erection of Steel Bridge

Construction of Pier E10-P1 (4 pours)

Allowable for achievement of concrete strength

Forming support for steel bridge at Podium

E & M Installation & Lighting Installation

Connection of Existing Estate Prodium

Task

Split

Milestone

Design Submission and Approval of A&A Works

Submit & obtain BD's approval for A&A Works at Carpark 180 days

Ordering of steel frame, roofing panels & fall arrest system 120 days

286

288 289

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11 C 293

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Date: Tue 31/8/21

 297
 Establishmen

 298
 Section 4A Completion

Project: Contract No. ED/2019/02

	365 days	Sat 30/3/24	Sat 29/3/25	295	298								
	0 days	Sat 29/3/25	Sat 29/3/2:	5 297									
	Summary	1		Inactive Milestone		Duration-only	1	Start-only	E	External Milestone	\diamond	Manual Progress	
	Project Summary	y B	1	Inactive Summary	0 0	Manual Summary Rollup		Finish-only	3	Deadline	+		
•	Inactive Task			Manual Task		Manual Summary	I	External Tasks	的。 他们的原始,在1995年1999年1999年1999年1999年1999年1999年1999	Progress	4415424554258854428360554886286000000000000000000000000000000000		
							Page	4			-		



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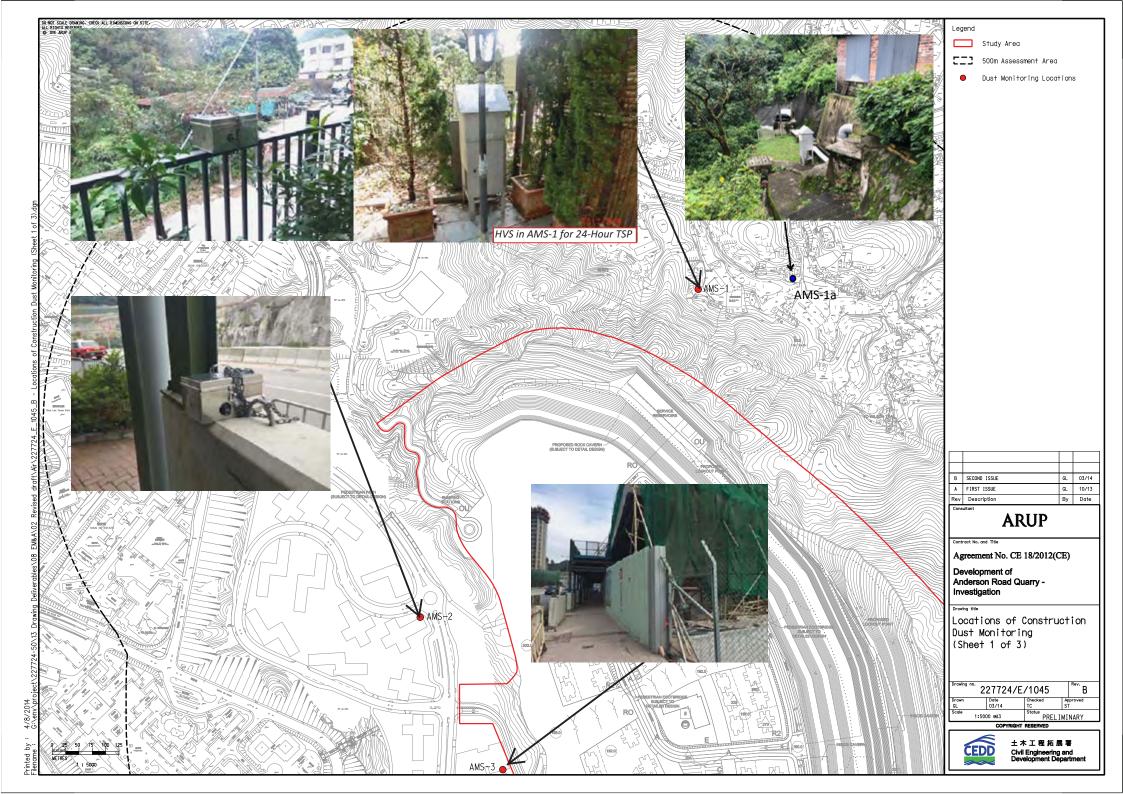


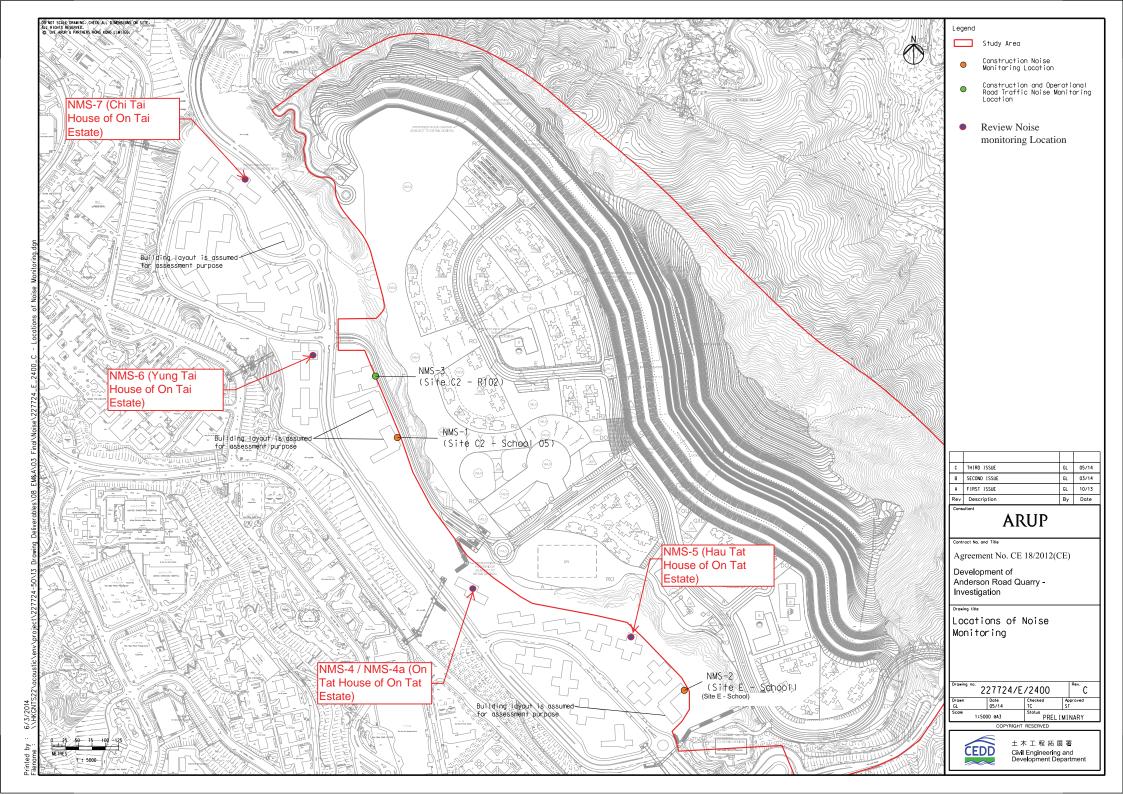
Appendix D

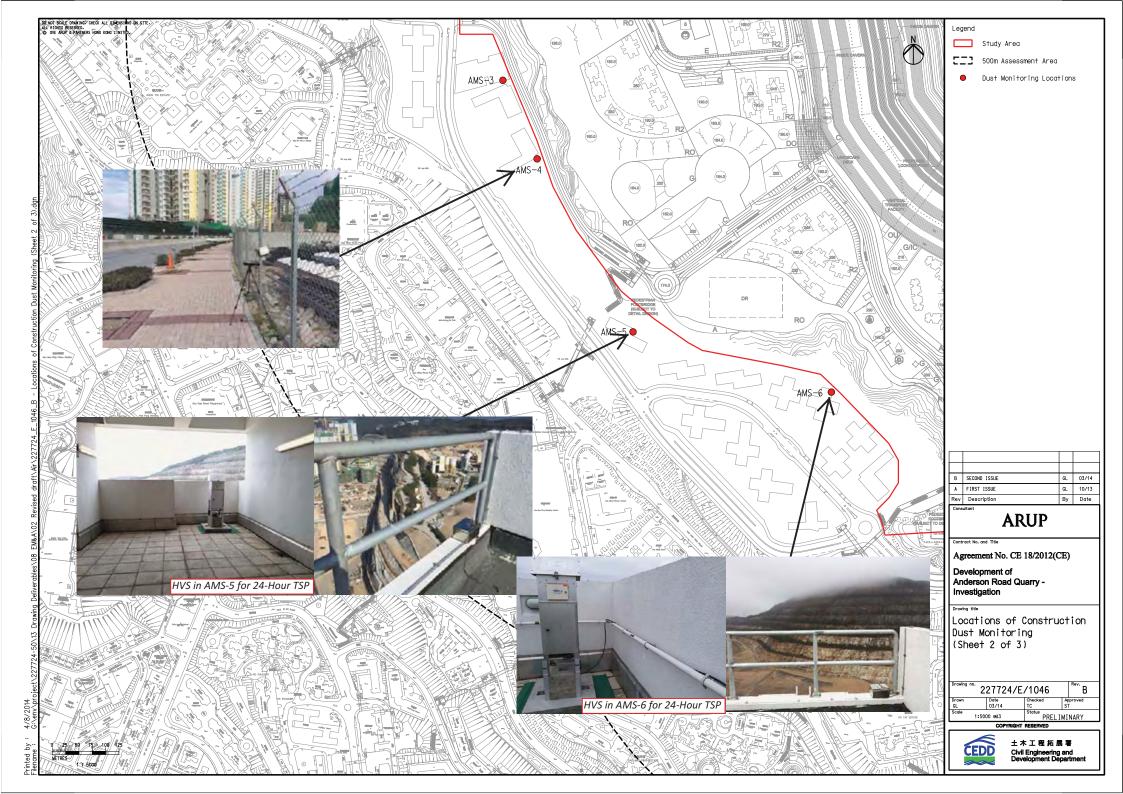
Monitoring Locations for Impact Monitoring

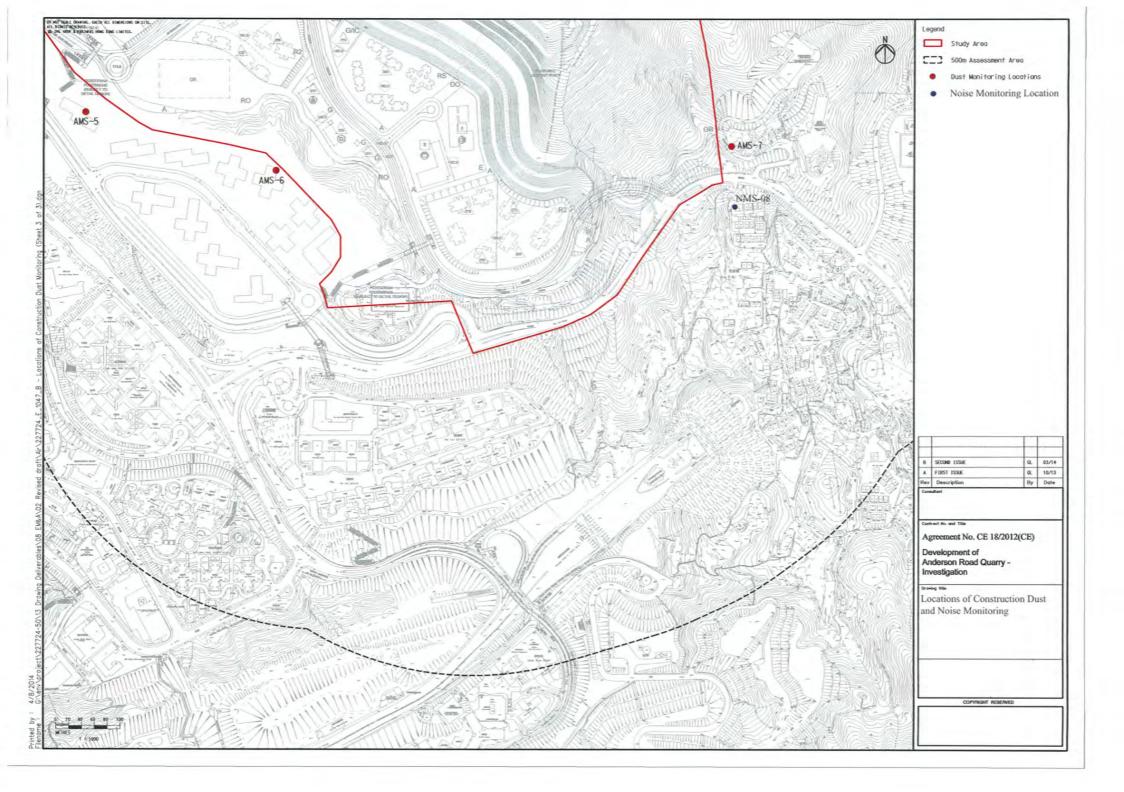


Monitoring Locations for Contract 1 (NE/2016/01)



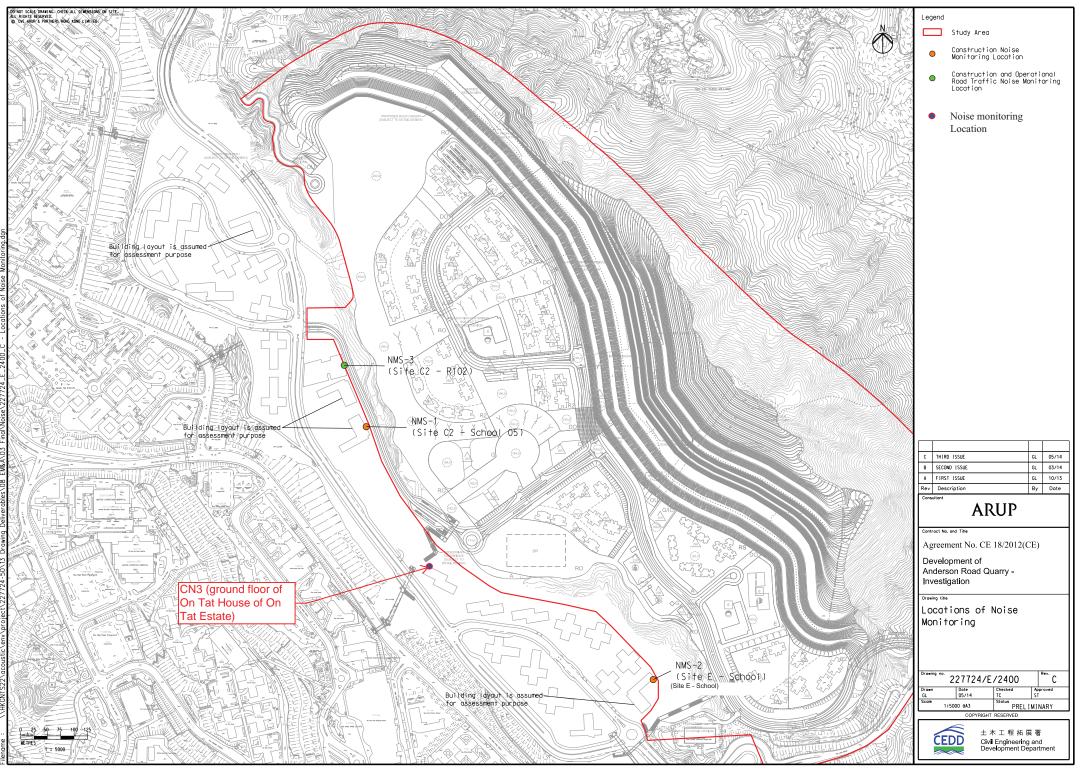






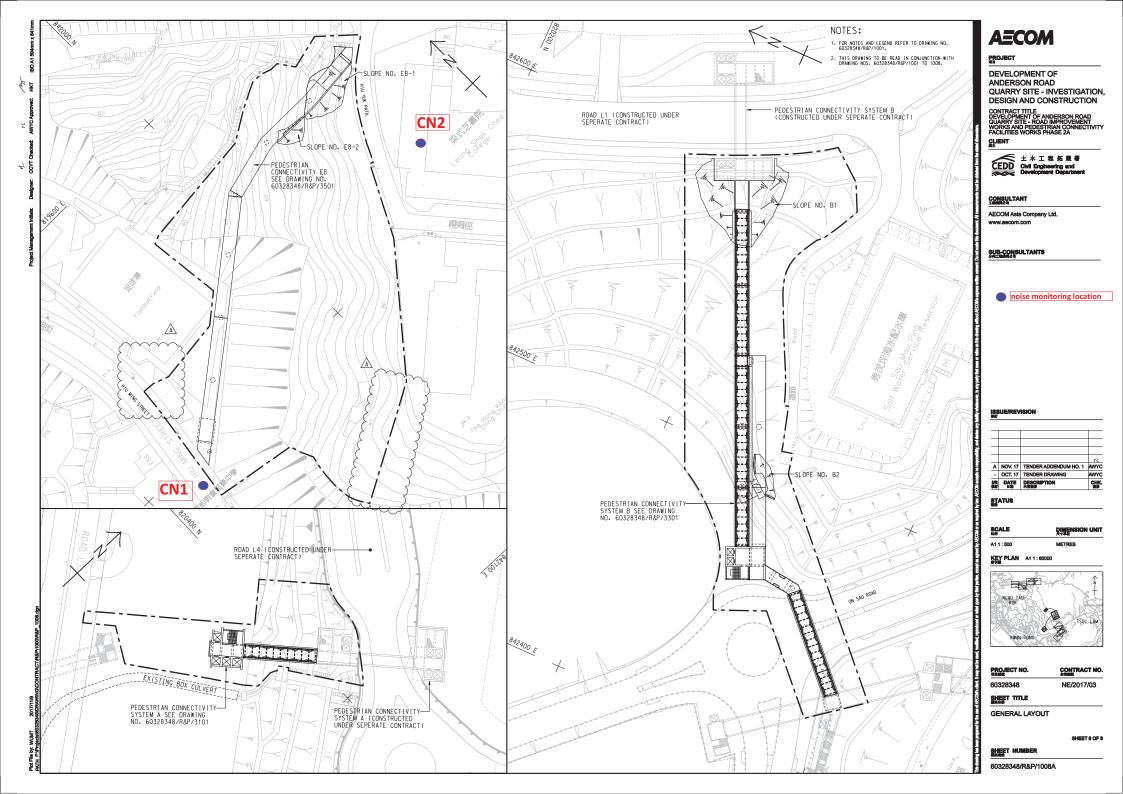


Monitoring Locations for Contract 3 (NE/2017/03)



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Appendix E

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

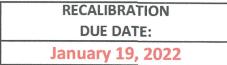
Location I		AMS1a]	Next Calibra	
Model:TIS	SCH High V	/olume Air	Sampler 7	TE-5170	CONDITIO		'echnician: Mr. Fai So
			el Pressure mperature		<u> </u>		Corrected Pressure (mm Hg) 748.725 Temperature (K) 303
				CALI	BRATION	ORIFICE	
				Make-> Model-> Serial # ->	TE-5025A]	Qstd Slope -> 2.10574 Qstd Intercept -> -0.00985
					CALIBRAT	ION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18 13	6.2 5.3	6.2 5.3	12.4 10.6	1.651 1.527	50 46	49.22 45.28	Slope = 41.2877 Intercept = -18.8402
10 7 5	3.8 2.6 1.6	3.8 2.6 1.6	7.6 5.2 3.2	1.293 1.071 0.841	34 25 17	33.47 24.61 16.73	Corr. coeff. = 0.9975
	o ns : n[Sqrt(H20) t(Pa/Pstd)(7		std/Ta))-b]	I		60.00	FLOW RATE CHART
IC = corre I = actual	ndard flow cted chart r chart respon	respones nse				50.00	
b = calibra Ta = actua	ator Qstd sl ator Qstd in al temperatu ual pressure	tercept ire during c				400.00 (C) 900.00 (C) 900.00 (C) 900.00 (C) 900.00 (C)	
	e quent calc Sqrt(298/Ta		-	ow:		Actual char	
m = sampl b = sampl I = chart r	ler intercept	t				10.00 —	
Tav = dail	y average to y average p					0.00	0 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)

Location : Oi Tat House						Date of C	Calibration:	2-Aug-21				
Location ID : AMS 5]	Next Calibra		2-Oct-21			
Model:TISCH High Volume Air Sampler TE-5170							Т	echnician: N	Ir. Fai So			
						COND	ITIONS					
Sea Level Pressure (hPa) Temperature (°C)						998.3 30.0			ed Pressure (n emperature (K		748.725 303	
				1	CAL	IBRATI	ON ORIFICE					
Make-> TIS Model-> TE- Serial # -> 194						-5025A		-	td Slope -> ntercept ->		2.10574 -0.00985	
						CALIB	RATION					
Plate		H2O (R)		Qstd	(I	IC		LINEA			
No. 18	(in) 6.3	(in) 6.3	(in) 12.6	(m3/min) 1.664	((chart) 52	corrected 51.19		Slope =	$\frac{\text{GRESSION}}{\text{pe} = 41.6929}$		
13	5.1	5.1	10.2	1.498		46	45.28]	Intercept =	-		
10	3.9	3.9	7.8	1.310		36	35.44		rr. coeff. =	0.997		
7	2.6	2.6	5.2	1.071		26	25.59					
5	1.6	1.6	3.2	0.841		18	17.72					
S 1.0 1.0 3.2 0.841 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 IC = corrected 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)				 50.0 50.1 40.1 <li< td=""><td></td><td>FLOW F</td><td></td><td></td><td>•</td></li<>		FLOW F			•			
m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure					0.	0.000	0.500 Standard F	1.000 Flow Rate (m3/m	1.500 in)	2.000		

Location :	Hai	u Tat Ho	use				Date of C	Calibration:	2-Aug-21		
Location I		AMS 6				N	lext Calibra	ation Date:	2-Oct-21		
Model:TIS	SCH Higl	n Volume	e Air Sa	mpler TE-51				echnician:	Mr. Fai So		
					CO	NDIT	IONS				
	Se	a Level F	Pressure	(hPa)	99	98.3		Correc	cted Pressure	e (mm Hg)	748.725
		Temp	erature	(°C)		30.0			Temperature	e (K)	303
				C	ALIBRA						
				Make->		<i>5</i> ۸)std Slope ->		2.10574
				Model->' Serial # ->		JA		Qsta	l Intercept ->	>	-0.00985
					CAL	IBRA					
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι		IC		LINI	EAR	
No.	(in)	(in)	(in)	(m3/min)	(char	t)	corrected		REGRE	SSION	
18	6.4	6.4	12.8	1.677	52		51.19		-	= 41.2290	
13	5.3	5.3	10.6	1.527	48		47.25		Intercept =		
10	3.7	3.7	7.4	1.276	36		35.44	C	Corr. coeff. =	= 0.9981	
7 5	2.7 1.6	2.7 1.6	5.4 3.2	1.091 0.841	28 18		27.56 17.72				
	1.0	1.0	5.2	0.011		I	11.12				
Calculatio								FLOW	RATE CHAP	RT	
Qstd = 1/n				/Ta))-b]		60.00					
IC = I[Sqr	i(Pa/Psid	1)(1510/17	a)]								
Qstd = sta	ndard flo	w rate				50.00				•	·
IC = corre			es								
I = actual m = calibr	-	-			e (IC	40.00					
h = calibra b = calibra	-	-	÷		suod					*	
	_	_		oration (deg	K	30.00	-				
	_		-	ation (mm H							
For subse	auent ca	alculation	n of san	npler flow [.]	Actua	20.00					
1/m((I)[S	-			-					•		
						10.00					
m = sampler slope											
b = sampler intercept						0.00					
I = chart re Tav = dail	-	e temner	ature				.000	0.500	1.000	1.500	2.000
Pav = dail								Standard	Flow Rate (m3	/min)	
	j u torugi	e prosour	~								

Location · Ma You Tong Villago							Doto	af C	librotion	2 4	ua 01			
Location: Ma Yau Tong Village Location ID: AMS 7									alibration:		.ug-21			
			A		170	Γ	Next Ca		tion Date:		Dct-21			
Model: 113	SCH High V	olum	e Air Sa	mpler IE-5			TIONO	10	echnician:	IVII. F	al 30			
					00	וטאי	TIONS							
	C T	1 T		(1.D.)	00	10.2	1		0				74	0 705
						98.3					essure (n	0,	/4	8.725
		Temp	erature	(C)		30.0	J			Tempe	rature (K	.)		303
				C	ALIBR	ΑΤΙΟ	ON OR	IFICE						
				Make->	TISCH]		Ç	Qstd Slo	ope ->		2.1	0574
				Model->	TE-502	25A			Qstd	l Interc	ept ->		-0.0)0985
				Serial # ->	1941									
					CAI	IBE	RATION							
					0/1			•						
Plate	H20 (L)H2	(R)	H20	Qstd	Ι	IC				LINEA	R			
No.		(in)	(in)	(m3/min)	(char	t)	correc		REGRESSION					
18	6.5	6.5	13	1.690	52			9	Slope = 40.0895					
13	5.4	5.4	10.8	1.541	48		47.2	25	Intercept = -15.7722					
10	3.8	3.8	7.6	1.293	36		35.4	4	Corr. coeff. = 0.9981					
7	2.6	2.6	5.2	1.071	28		27.5	56						
5	1.6	1.6	3.2	0.841	18		17.7	2						
Calculatio		~ ~		(ma) \\ 1 a	ſ	1								
-	n[Sqrt(H20(/Ta))-b]			60.00 -		FLO	W RA	TE CHAR	т		.
IC = I[Sqr	rt(Pa/Pstd)(T	std/Ta	a)]											
0,11,4	1 1 0													
-	indard flow i					4	50.00 +							
	ected chart re	-	ës									7		
	chart respon ator Qstd sl					<u></u>	40.00 -							
	ator Qstd int		f) esi	40.00							
	al temperatur	-		oration (de	7 K)	spor								
	ual pressure		-			rt rea	30.00 +				•			
1 sta – act	uai pressure	uuiiii	g canon		115)	chai				,				
For subse	For subsequent calculation of sampler flow:					tual	20.00 +			/				
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)					Ac				4					
							40.00							
m = sampler slope							10.00							
b = sampler intercept														
I = chart r							0.00							
	ly average te	empera	ature				0.00	U	0.500 Stand		000 v Rate (m3/	1.500 min)	2.0	000
	y average pi	-							Janu			,		





n m e n t a l Dertificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 19	, 2021	Roots	meter S/N:	438320 Ta: 294			°К
Operator:	Jim Tisch					Pa:	755.1	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N:	1941			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	
	2	3	4	1	1.0420	6.4	4.00	
	3	5	6	1	0.9290	8.0	5.00	
	4	7	8	1	0.8840	8.8	5.50	
	5	9	10	1	0.7340	12.9	8.00	
			[Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	<u>)(Tstd</u>)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	1.0029	0.6762	1.41		0.9958	0.6715	0.8824	
	0.9986	0.9583	2.0071		0.9915	0.9516	1.2479	
	0.9965	1.0726		2.2440		1.0650	1.3952	
	0.9954	1.1260 1.3487	2.35		0.9883	1.1180	1.4633	
	0.9699	1.3467 m=	2.833 2.105		0.9829	1.3391 m =	1.7648 1.31858	
	QSTD	b=	-0.00		QA	b=	-0.00612	
	QUID	r=	0.999		QA	r=	0.99992	
				Calculatio	าร			
	Vstd=	$\Delta Vol((Pa-\Delta P))$	/Pstd)(Tstd/Ta	a)	Va=			
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m ((Pa Pstd / Tstd Ta	-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
		Conditions						
Tstd:				Į.		RECA	LIBRATION	
Pstd:	1	mm Hg			LIS FPA reco	mmends a	nual recalibratio	n ner 1000
AH: calibrat		(ey ter reading (i	n H2O)		US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51,			
		eter reading					-	-
		perature (°K)			Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in			
	Contraction of the local data and the local data an	ressure (mm	Hg)				ere, 9.2.17, page	
b: intercept							, public	
m: slope								

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2102507						
CLIENT	ACTION UNITED ENVIRONMENT							
	SERVICES AND CONSULTING							
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1						
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 15-JAN-2021						
	KONG	DATE OF ISSUE : 26-JAN-2021						
PROJECT	:	NO. OF SAMPLES : 1						
		CLIENT ORDER						

General Comments

- Samples(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- 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
Kidard Jong.	
Richard Fung	Managing Director

This is the Final Report and supersedes any preliminary report with this batch number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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

CLIENT

PROJECT

: HK2102507

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



:

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2102507-001	S/N: 366410	AIR	15-Jan-2021	S/N: 366410

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	366410
Equipment Ref:	EQ110
Job Order	HK2102507

Standard Equipment:

Higher Volume Sampler
AUES office (calibration room)
HVS 018
8 October 2020

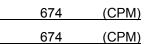
Equipment Verification Results:

Testing Date:

31 December 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:16 ~ 11:17	10.9	1027.0	0.058	3158	26.1
2hr01min	11:19 ~ 11:20	10.9	1027.0	0.027	1608	13.3
2hr01min	11:22 ~ 13:23	10.9	1027.0	0.026	1107	9.2

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration)



y = 0.0022x + 0.0016

 $R^2 = 0.9791$

25

30

20

0.07

0.06 0.05 0.04 0.03

0.02

0.01

0 <

0

5

10

15

Linear Regression of Y or X

Slope (K-factor):	
Correlation Coefficient	
Date of Issue	8,

0.0022	
0.9895	
8 January 2021	

Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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



Location : Gold King Industrial Build Location ID : Calibration Room					
	CON	DITIONS			
Sea Level Pressure (hPa) Temperature (°C)	1015.2 25.5		Corrected Pressure (Temperature (
	CALIBRAT	ION ORIFICE			
Make-: Model-: Calibration Date-:	> 5025A		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21	
	CALIE	BRATION			
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/min	I (chart)	IC corrected	LINE. REGRES		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	56 49 42 32 21	56.00 49.00 42.00 32.00 21.00	Slope = Intercept = Corr. coeff. =	38.0056 -11.6655 0.9991	
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 (or Pstd = actual pressure during calibration (mr 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	5 4 (C) 3 7 9 9 9 9 9 9 9 1 2 2 1	0.00 0.	FLOW RATE CHAI	1.500 2.000	

								ALIBRATION
							D	UE DATE:
)		Febru	uary 7, 202
nvir	o n m	ent	al	- Construction of the Article				
	Ø		2 .		O	0.0	6 •	
	0e	rtifa	çate	01	Oal	ibra	tion	
			Calibration	Certificatio	on Informat	ion		
Cal. Date:	February 7	2020	Roots	meter S/N:	438320	Ta:	295	°К
Operator:	Jim Tisch					Pa:	745.5	mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	-
	3	5	6	1	0.8780	8.0	5.00	-
	4	7	8	1	0.8340	8.8	5.50	
	5	9	10	1	0.6900	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9866	0.7186	1.40		0.9957	0.7252	0.8896	-
	0.9824	1.0004	1.99	09	0.9914	1.0096	1.2581	-
	0.9802	1.1165	2.22	59	0.9893	1.1267	1.4066	
	0.9792	1.1741	2.33	45	0.9882	1.1849	1.4753	-
	0.9739	1.4114	2.81		0.9828	1.4244	1.7792	-
	OCTD		2.030		0.4		1.27124	
	QSTD	b= r=	-0.04		QA	b= r=	-0.02917 0.99995	
		1-	0.555			1	0.33333]
	Vstd=	AVol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-Δl	P)/Pa)	-
		Vstd/ATime	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Va/ATime	,,,	-
			For subsequ	ient flow rat	te calculatio			1
	Qstd=	1/m ((_ \[\[\] \[\] \[\] H (Pa (Tstd Pstd Ta	-))-b)		11	н(Та/Ра))-b)	
[Conditions	rstu /\ la	///		// V	· // /]
Tstd:				Г		RECA	LIBRATION	1
Pstd:		mm Hg						
	ŀ	(ey					nnual recalibrati	
ΔH: calibrate							Regulations Part	
ΔP: rootsme		eter reading perature (°K)					, Reference Met	
		essure (mm					ended Particulat	
		cooure (min			th	e Atmosphe	ere, 9.2.17, page	30
b: intercept			1	1				1

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2102513
CLIENT	ACTION UNITED ENVIRONMENT	
	SERVICES AND CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 15-JAN-2021
	KONG	DATE OF ISSUE : 26-JAN-2021
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Samples(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- 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	
Kichard Jong .		
Richard Fung	Managing Director	

This is the Final Report and supersedes any preliminary report with this batch number.

All pages of this report have been checked and approved for release.

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

: HK2102513

:



: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2102513-001	S/N: 3Y6502	AIR	15-Jan-2021	S/N: 3Y6502

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	3Y6502
Equipment Ref:	EQ113
Job Order	HK2102513

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 October 2020

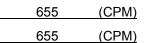
Equipment Verification Results:

Testing Date:

31 December 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:16 ~ 11:17	10.9	1027.0	0.058	3101	25.6
2hr01min	11:19 ~ 11:20	10.9	1027.0	0.027	1276	10.5
2hr01min	11:22 ~ 13:23	10.9	1027.0	0.026	1007	8.3

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration)



0.07 0.06 0.05 0.04 0.03 y = 0.0022x + 0.0034 0.02 R² = 0.9787 0.01 0 5 10 15 20 25 30 0

Linear Regression of Y or X Slope (K-factor):

Correlation Coefficient
Date of Issue

0.0022	-
0.9893	_
8 January 2021	

Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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



Location : Gold King Industrial Build Location ID : Calibration Room					
	CON	DITIONS			
Sea Level Pressure (hPa) Temperature (°C)	1015.2 25.5		Corrected Pressure (Temperature (
	CALIBRAT	ION ORIFICE			
Make-: Model-: Calibration Date-:	> 5025A		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21	
	CALIE	BRATION			
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/min	I (chart)	IC corrected	LINE. REGRES		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	56 49 42 32 21	56.00 49.00 42.00 32.00 21.00	Slope = Intercept = Corr. coeff. =	38.0056 -11.6655 0.9991	
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 (or Pstd = actual pressure during calibration (mr 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	5 4 (C) 3 7 9 9 9 9 9 9 9 1 2 2 1	0.00 0.	FLOW RATE CHAI	1.500 2.000	

								ALIBRATION
							D	UE DATE:
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	0		2 .		0	0.0		
	0e	rtifa	çate	01	Oal	ibra	tion	
			Calibration	Certificatio	on Informat	ion		
Cal. Date:	February 7	2020	Roots	meter S/N:	438320	Ta:	295	°К
Operator:	Jim Tisch					Pa:	745.5	mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	-
	3	5	6	1	0.8780	8.0	5.00	-
	4	7	8	1	0.8340	8.8	5.50	
	5	9	10	1	0.6900	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9866	0.7186	1.40		0.9957	0.7252	0.8896	-
	0.9824	1.0004	1.99	09	0.9914	1.0096	1.2581	-
	0.9802	1.1165	2.22	59	0.9893	1.1267	1.4066	
	0.9792	1.1741	2.33	45	0.9882	1.1849	1.4753	-
	0.9739	1.4114	2.81		0.9828	1.4244	1.7792	-
	OCTD		2.030		0.4		1.27124	
	QSTD	b= r=	-0.04		QA	b= r=	-0.02917 0.99995	
		1-	0.555			1	0.33333]
	Vstd=	AVol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-Δl	P)/Pa)	-
		Vstd/ATime	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Va/ATime	,,,	-
			For subsequ	ient flow rat	te calculatio			1
	Qstd=	1/m ((_ \[\[\] \[\] \(\] \ \ \ \ \ \ \ \ \ \ \ \ \	Pa (Tstd Pstd Ta	-))-b)		11	н(Та/Ра))-b)	
[Conditions	rstu /\ la	///		// V	· // /]
Tstd:				Г		RECA	LIBRATION]
Pstd:		mm Hg						
	ŀ	(ey					nnual recalibrati	
$\Delta H:$ calibrate							Regulations Part	
ΔP: rootsme		eter reading perature (°K)					, Reference Met	
		essure (mm					ended Particulat	
		cooure (min			th	e Atmosphe	ere, 9.2.17, page	30
b: intercept			1	1				1

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-

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2111341
CLIENT	ACTION UNITED ENVIRONMENT	
	SERVICES AND CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 17-MAR-2021
	KONG	DATE OF ISSUE : 16-APR-2021
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Samples(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

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

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Richard Fung	Managing Director

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

CLIENT PROJECT : HK2111341

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



 ALS Lab
 Client's Sample ID
 Sample
 Sample Date
 External Lab Report No.

 ID
 Type
 ID
 ID</t

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	3Y6505
Equipment Ref:	EQ114
Job Order	HK2111341

Standard Equipment:

Higher Volume Sampler
AUES office (calibration room)
HVS 018
13 January 2021

Equipment Verification Results:

Verification Date:

12 March 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:30 ~ 11:31	22.0	1018.6	0.023	1507	12.4
2hr01min	11:35 ~ 11:36	22.0	1018.6	0.044	2509	20.7
2hr	11:40 ~ 13:40	22.0	1018.6	0.039	1944	16.2

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration)



Slope (K-factor):	0.0022
Correlation Coefficient (R)	0.9857
Date of Issue	15 March 2021

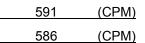
Remarks:

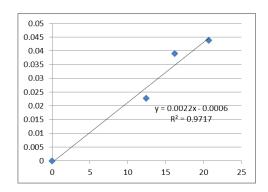
1. Strong Correlation (R>0.8)

2. Factor 0.0022 should be apply for TSP monitoring

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







TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, K Location ID : Calibration Room		alibration: 13-Jan-21 tion Date: 13-Apr-21		
	COND	ITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1019.8 13.4		Corrected Pressure (Temperature (C,
CALI	IBRAT	ION ORIFICE		
	SCH 25A eb-20		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALIB	RATION		
	I nart)	IC corrected	LINE A REGRES	
13 5.1 5.1 10.2 1.633 4 10 4 4 8.0 1.448 4 8 2.6 2.6 5.2 1.172 3	55 49 42 32 22	56.28 50.14 42.98 32.75 22.51	Slope = Intercept = Corr. coeff. =	39.9777 -15.3902 0.9972
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	05 04 05 05 05 02 01 01		FLOW RATE CHAP	1.500 2.000

								ALIBRATION
							D	UE DATE:
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	0e	rtifa	çate	01	Oal	ibra	tion	
			Calibration	Certificatio	on Informat	ion		
Cal. Date:	February 7	2020	Roots	meter S/N:	438320	Ta:	295	°К
Operator:	Jim Tisch					Pa:	745.5	mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	-
	3	5	6	1	0.8780	8.0	5.00	-
	4	7	8	1	0.8340	8.8	5.50	
	5	9	10	1	0.6900	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9866	0.7186	1.40		0.9957	0.7252	0.8896	-
	0.9824	1.0004	1.99	09	0.9914	1.0096	1.2581	-
	0.9802	1.1165	2.22	59	0.9893	1.1267	1.4066	
	0.9792	1.1741	2.33	45	0.9882	1.1849	1.4753	-
	0.9739	1.4114	2.81		0.9828	1.4244	1.7792	-
	OCTD		2.030		0.4		1.27124	
	QSTD	b= r=	-0.04		QA	b= r=	-0.02917 0.99995	
		1-	0.555			1	0.33333]
	Vstd=	AVol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-Δl	P)/Pa)	-
		Vstd/ATime	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		$Qa = Va/\Delta$ Time			-
			For subsequ	ient flow rat	te calculatio			1
	Qstd=	1/m ((_ \[\[\] \[\] \[\] H (Pa (Tstd Pstd Ta	-))-b)		11	н(Та/Ра))-b)	
[Conditions	rstu /\ la	///		// V	· // /]
Tstd:				Г		RECA	LIBRATION]
Pstd:		mm Hg						
	ŀ	(ey					nnual recalibrati	
$\Delta H:$ calibrate							Regulations Part	
ΔP: rootsme		eter reading perature (°K)					, Reference Met	
		essure (mm					ended Particulat	
		cooure (min			th	e Atmosphe	ere, 9.2.17, page	30
b: intercept			1	1				1

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

-

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2111342			
CLIENT	ACTION UNITED ENVIRONMENT				
	SERVICES AND CONSULTING				
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1			
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 17-MAR-2021			
	KONG	DATE OF ISSUE : 16-APR-2021			
PROJECT	:	NO. OF SAMPLES : 1			
		CLIENT ORDER			

General Comments

- Samples(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
- 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
Kichard Jong.	
Richard Fung	Managing Director

This is the Final Report and supersedes any preliminary report with this batch number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd Part of the ALS Laboratory Group

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

CLIENT PROJECT : HK2111342

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



 ALS Lab
 Client's Sample ID
 Sample
 Sample Date
 External Lab Report No.

 ID
 Type
 ID
 ID</t

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	456658
Equipment Ref:	EQ115
Job Order	HK2111342

Standard Equipment:

Higher Volume Sampler
AUES office (calibration room)
HVS 018
13 January 2021

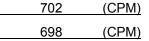
Equipment Verification Results:

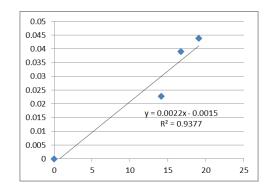
Verification Date:

12 March 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:30 ~ 11:31	22.0	1018.6	0.023	1711	14.1
2hr01min	11:35 ~ 11:36	22.0	1018.6	0.044	2311	19.1
2hr	11:40 ~ 13:40	22.0	1018.6	0.039	2001	16.7

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration)





Linear Regression of Y or X

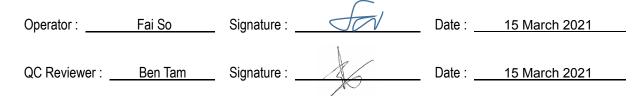
Slope (K-factor):	0.0022
Correlation Coefficient (R)	0.9683
Date of Issue	15 March 2021

Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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



TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, K Location ID : Calibration Room		alibration: 13-Jan-21 tion Date: 13-Apr-21		
	COND	ITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1019.8 13.4		Corrected Pressure (Temperature (C,
CALI	IBRAT	ION ORIFICE		
	SCH 25A eb-20		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALIB	RATION		
	I nart)	IC corrected	LINE A REGRES	
13 5.1 5.1 10.2 1.633 4 10 4 4 8.0 1.448 4 8 2.6 2.6 5.2 1.172 3	55 49 42 32 22	56.28 50.14 42.98 32.75 22.51	Slope = Intercept = Corr. coeff. =	39.9777 -15.3902 0.9972
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	05 04 05 05 05 02 01 01		FLOW RATE CHAP	1.500 2.000

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			Calibration	Certificatio	on Informat	ion		
Cal. Date:	February 7	2020	Roots	meter S/N:	438320	Ta:	295	°К
Operator:	Jim Tisch					Pa:	745.5	mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	-
	3	5	6	1	0.8780	8.0	5.00	-
	4	7	8	1	0.8340	8.8	5.50	
	5	9	10	1	0.6900	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9866	0.7186	1.40		0.9957	0.7252	0.8896	-
	0.9824	1.0004	1.99	09	0.9914	1.0096	1.2581	-
	0.9802	1.1165	2.22	59	0.9893	1.1267	1.4066	
	0.9792	1.1741	2.33	45	0.9882	1.1849	1.4753	-
	0.9739	1.4114	2.81		0.9828	1.4244	1.7792	-
	OCTD		2.030		0.4		1.27124	
	QSTD	b= r=	-0.04		QA	b= r=	-0.02917 0.99995	
		1-	0.555			1	0.33333]
	Vstd=	AVol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-Δl	P)/Pa)	-
		Vstd/ATime	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Va/ATime	,,,	-
			For subsequ	ient flow rat	te calculatio			1
	Qstd=	1/m ((_ \[\[\] \[\] \[\] H (Pa (Tstd Pstd Ta	-))-b)		11	н(Та/Ра))-b)	
[Conditions	rstu /\ la	///		// V	· // /]
Tstd:				Г		RECA	LIBRATION]
Pstd:		mm Hg						
	ŀ	(ey					nnual recalibrati	
ΔH: calibrate							Regulations Part	
ΔP: rootsme		eter reading perature (°K)					, Reference Met	
		essure (mm					ended Particulat	
		cooure (min			th	e Atmosphe	ere, 9.2.17, page	30
b: intercept			1	1				1

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Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210389 證書編號

ITEM TESTED / 送檢」	頁目	(Job No./序引編號:IC21-0122)	Date of Receipt / 收件日期: 19 January 2021
Description / 儀器名稱	:	Sound Level Meter (EQ018)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00809405	
Supplied By / 委託者	:	Action-United Environmental Services an	d Consulting
		Unit A, 20/F., Gold King Industrial Build	ing,
		35-41 Tai Lin Pai Road, Kwai Chung, N.T	Г.

TEST CONDITIONS / 測試條件

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 January 2021

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies

:

- Fluke Everett Service Center, USA

Tested By 測試

K P Cheuk

Assistant Engineer

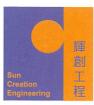
K **(**Lee Engineer

Certified By 核證

Date of Issue 簽發日期 :

20 January 2021

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C210389 證書編號

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

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

UUT Setting				Applie	d Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UU	Г Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

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

6.2 Time Weighting

	UUT Setting				d Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	A	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C210389 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.9	-3.2 ± 1.4
					1 kHz	94.1	Ref.
-					2 kHz	95.3	$+1.2 \pm 1.6$
					4 kHz	95.1	$+1.0 \pm 1.6$
					8 kHz	93.1	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.7	-4.3 (+3.0 ; -6.0)

6.3.2 <u>C-Weighting</u>

	UUT Setting			Appli	ed Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.1	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.2	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.7	-6.2 (+3.0 ; -6.0)

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210389 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16463

- Mfr's Spec. : IEC 61672 Class 1

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

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

Note :

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

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

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

ITEM TESTED / 送檢項目] (Job No. / 序引編號:IC20-1324)	Date of Receipt / 收件日期: 19 January 2021
Description / 儀器名稱 :	Sound Level Meter (EQ067)	
Manufacturer / 製造商 :	Rion	
Model No. / 型號 :	NL-31	
Serial No. / 編號 :	00410221	
Supplied By / 委託者 :	Action-United Environmental Services	and Consulting
	Unit A, 20/F., Gold King Industrial Bui	lding,
	35-41 Tai Lin Pai Road, Kwai Chung, N	N.T.

TEST CONDITIONS / 測試條件

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 January 2021

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

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

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

Tested By 測試

K P Cheuk Assistant Engineer

Certified By 核證

K C Lee Engineer

Date of Issue 簽發日期 :

21 January 2021

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

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

Sun Creation Engineering Limited – Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

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

Equipment IDDescriptionCertificate No.CL28040 MHz Arbitrary Waveform GeneratorC210084CL281Multifunction Acoustic CalibratorCDK1806821

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

	UUT Setting Applied Value				UUT	IEC 61672 Class 1	
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

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

6.2 Time Weighting

UUT Setting				Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	94.0	Ref.
			Slow			93.9	± 0.3

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

Frequency Weighting 6.3

6.3.1 A-Weighting

 <u>it non-Ginting</u>								
UUT Setting					Applied Value		IEC 61672 Class 1	
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.	
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)	
30 - 120	L _A	А	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5	
					125 Hz	77.8	-16.1 ± 1.5	
					250 Hz	85.3	-8.6 ± 1.4	
					500 Hz	90.7	-3.2 ± 1.4	
					1 kHz	94.0	Ref.	
					2 kHz	95.2	$+1.2 \pm 1.6$	
					4 kHz	95.1	$+1.0 \pm 1.6$	
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)	
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)	

6.3.2 C-Weighting

		Γ Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	93.1	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	93.9	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.3	-6.2 (+3.0 ; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 322551

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
	B : 1 kHz: ± 0.10 dB (Ref. 94 dB)B : 1 kHz: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C212414 證書編號

ITEM TESTED / 送檢功	百百	(Job No. / 序引編號:IC21-0728)	Date of Receipt / 收件日期: 13 April 2021
Description / 儀器名稱	:	Sound Level Calibrator (EQ085)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NC-73	
Serial No. / 編號	:	10655561	
Supplied By / 委託者	:	Action-United Environmental Services and G	Consulting
		Unit A, 20/F., Gold King Industrial Building	, ,
		35-41 Tai Lin Pai Road, Kwai Chung, N.T.	

TEST CONDITIONS / 測試條件

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

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 25 April 2021

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification & user's specified acceptance criteria. The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies

:

- Fluke Everett Service Center, USA

Tested By 測試

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ΗT	Wong

K C Lee Engineer

1

Assistant Engineer

Certified By 核證

Date of Issue 簽發日期 :

26 April 2021

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C212414 證書編號

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

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C203952
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C201309

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

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.955	1 kHz ± 6 %	± 1

Remarks : - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

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

Note :

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

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

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



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

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

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

Environmental Testing

環境測試

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

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

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

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

Registration Number : HOKLAS 066 註冊號碼 :



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

L001934



Appendix F

Event and Action Plan

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



Event and Action Plan for Construction Noise

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
	 Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness. 	 Review the 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. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; and Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Appendix G

Impact Monitoring Schedule

Impact Monitoring Schedule for the Reporting Period

		Noise Monitoring	Air Quality M	Ionitoring
	Date	(0700 – 1900)	1-hour TSP	24-hour TSP
Sun	1-Aug-21			
Mon	2-Aug-21			
Tue	3-Aug-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Wed	4-Aug-21			
Thu	5-Aug-21	CN1, CN2, CN3 and NMS8		
Fri	6-Aug-21			✓
Sat	7-Aug-21			
Sun	8-Aug-21			
Mon	9-Aug-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	√	
Tue	10-Aug-21			
Wed	11-Aug-21	CN1, CN2, CN3 and NMS8		
Thu	12-Aug-21			✓
Fri	13-Aug-21			
Sat	14-Aug-21		✓	
Sun	15-Aug-21			
Mon	16-Aug-21			
Tue	17-Aug-21	CN1, CN2, CN3 and NMS8		
Wed	18-Aug-21			✓
Thu	19-Aug-21			
Fri	20-Aug-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Sat	21-Aug-21			
Sun	22-Aug-21			
Mon	23-Aug-21	CN1, CN2, CN3 and NMS8		
Tue	24-Aug-21			✓
Wed	25-Aug-21			
Thu	26-Aug-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Fri	27-Aug-21			
Sat	28-Aug-21			
Sun	29-Aug-21			
Mon	30-Aug-21			✓
Tue	31-Aug-21			

✓	Monitoring Day
	Sunday or Public Holiday

		Noise Monitoring	Air Quality N	Ionitoring
	Date	(0700 – 1900)	1-hour TSP	24-hour TSP
Wed	1-Sep-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Thu	2-Sep-21			
Fri	3-Sep-21	CN1, CN2, CN3 and NMS8		√
Sat	4-Sep-21			
Sun	5-Sep-21			
Mon	6-Sep-21			
Tue	7-Sep-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Wed	8-Sep-21			
Thu	9-Sep-21	CN1, CN2, CN3 and NMS8		✓
Fri	10-Sep-21			
Sat	11-Sep-21			
Sun	12-Sep-21			
Mon	13-Sep-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Tue	14-Sep-21			
Wed	15-Sep-21	CN1, CN2, CN3 and NMS8		✓
Thu	16-Sep-21			
Fri	17-Sep-21			
Sat	18-Sep-21			
Sun	19-Sep-21			
Mon	20-Sep-21			
Tue	21-Sep-21	CN1, CN2, CN3 and NMS8		
Wed	22-Sep-21			
Thu	23-Sep-21			
Fri	24-Sep-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Sat	25-Sep-21			
Sun	26-Sep-21			
Mon	27-Sep-21			
Tue	28-Sep-21	CN1, CN2, CN3 and NMS8		✓
Wed	29-Sep-21			
Thu	30-Sep-21	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	

Impact Monitoring Schedule for next Reporting Period

✓	Monitoring Day
	Sunday or Public Holiday

Appendix H

Database of Monitoring Result

CEDD Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (August 2021)



24-HOUR TSP MONITORING RESULT DATABASE

24-hour TSP Monitoring Data for +MSEs DATE NMMER IFLAPSED TIME CHART READING AVG PEAP STANDARD PEAS STANDARD VOLUME AIR FILTER WEIGHT (g) DUST WEIGHT COLLECTED 1% TSP (g) 6-Aug-21 27385 23731.73 23755.73 1440.00 36 39 37.5 28.3 998 1.35 1948 2.6498 2.6907 0.0409 21 12-Aug-21 27403 23755.73 12400.0 36 42 39 29 1008.9 1.39 2005 2.7037 2.7345 0.0308 15 18-Aug-21 27461 23779.73 1440.00 35 36 35.5 28.7 1005.9 1.31 1884 2.7095 2.877.41 40.022 14 24-Aug-21 27489 23803.73 23837.74 1440.00 34 36 52.91 1011.4 1.32 1983 2.8182 2.844 0.0262 12 27482 10941.11 10981.1 1440.00 33 35.5							24 110	Jon I			SULI DATADA					
DATE NMMER IELAPSED TIME CHART READING TEMP PRESS FLOW RATE VOLUME FILTR WEIGHT COLLECTED TSP 6-Aug-21 27385 23731.73 23755.73 1440.00 36 42 39 29 1008.9 1.33 1948 2.6498 2.6907 0.0409 21 12-Aug-21 27401 23755.73 2387.73 1440.00 36 42 39 29 1008.2 1.37 1969 2.7194 2.7345 0.0308 15 24-Aug-21 27461 2377.973 1240.00 34 38 29.5 1008.2 1.31 1884 2.7095 2.7321 0.0226 12 24-hur TSP 23827.74 1440.00 34 38 29.5 1008.2 1.31 1884 2.7095 2.7321 0.0226 12 24-hur TSP Montering Data GAMPLE ELAPSED TIME CHART READING AVG AVG AIR STANDARD AIR COLL2CTED TSP	24-hour TSI	P Monitoring	Data for	AMS1a												
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24-Aug-21 27489 23803.73 23827.74 1440.60 35 36 35.5 28.7 1005.9 1.31 1884 2.7095 2.7321 0.0226 12 30-Aug-21 27055 23827.74 123851.74 1440.00 34 38 36 29.1 1011.4 1.32 1903 2.8182 2.8444 0.0226 14 Atheur TSP Monitoring Date for AMS-5 TELAPSED TIME CHART READING AVG FEMP STANDARD (MPASIR AIR FLOW RATE VOLUME FLOW RATE VOLUME CUST WEIGHT (COLLECTED COLLECTED CUST WEIGHT COLLECTED VOLUME VOLUME VIST WOLLECTED COLLECTED COLLECTED COLLECTED VOLUME VIST WOLLECTED VOLUME VIST WOLLECTED COLSPAN VIST WOLLECTED VOLUME VIST WOLLECTED VOLUME VIST WOLCOLECTED	12-Aug-21		23755.73	23779.73	1440.00								2.7037	2.7345	0.0308	
30-Aug-21 27055 23827.74 23851.74 144.000 34 38 36 29.1 1011.4 1.32 1903 2.8182 2.8444 0.0262 14 24-hour TSP Monitoring Data for AMS-5 ELAPSED TIME CHART READING AVG TEMP PRESS FLOW RATE FLOW RATE VOLUME VOLUME FILTER WEIGHT (g) UMMBR DUST WEIGHT COLLECTED 24-hr TSP 6-Aug-21 27387 1094.11 10968.11 1440.00 34 37 35.5 28.3 998 1.28 1883 2.6602 2.7303 0.0701 38 12-Aug-21 27483 10992.11 1106.61 11440.00 33 36 35.5 29.5 1008.2 1.28 1843 2.6410 2.0918 0.0508 28 24-Aug-21 27490 11016.61 1104.06 143.00 34 36 35.5 29.1 1011.4 1.14 1606 2.7111 2.7303 0.0526 29 24-Aug-21 27494 1104.066 1104.18 14140.00 <td>18-Aug-21</td> <td>27461</td> <td>23779.73</td> <td>23803.73</td> <td>1440.00</td> <td>36</td> <td>40</td> <td>38</td> <td>29.5</td> <td>1008.2</td> <td>1.37</td> <td>1969</td> <td>2.7194</td> <td>2.7514</td> <td>0.032</td> <td>16</td>	18-Aug-21	27461	23779.73	23803.73	1440.00	36	40	38	29.5	1008.2	1.37	1969	2.7194	2.7514	0.032	16
24-hour TSP Monitoring Data for AMS-5 Notition of the second sec	24-Aug-21	27489	23803.73	23827.74	1440.60	35	36	35.5	28.7	1005.9	1.31	1884	2.7095	2.7321	0.0226	12
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18-Aug-21 27483 10992.11 11016.11 1440.00 33 36 34.5 29.5 1008.2 1.26 1808 2.7045 2.7571 0.0526 29 24-Aug-21 27490 11016.11 11040.66 1473.00 34 36 35.0 28.7 1005.9 1.27 1867 2.6942 2.7292 0.0350 19 30-Aug-21 27494 11040.66 1064.18 1411.20 28 31 29.5 29.1 1014 1.14 1606 2.7111 2.7350 0.0239 15 Z4hour TSP Monitoring Data for AWS-6 ELAPSED TIME CHART READING AVG PR PRESS FLAW RATE VOLUME FILTER WEIGHT (b) DUST WEIGHT C4-hr TSP 6-Aug-21 27388 16148.03 16172.03 1440.00 37 37 37.0 28.3 998 1.30 1871 2.6508 2.7393 0.0672 33 18-Aug-21 27482 16196.03 16220.03 1440.00 36 41 38.5 29.5 1008.2 1.37																
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30-Aug-21 27494 11040.66 11064.18 1411.20 28 31 29.5 29.1 1011.4 1.14 1606 2.7111 2.7350 0.0239 15 24-hour TSP Monitoring Data for AMS-6 DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG TEMP STANDARD PRESS AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP 6-Aug-21 27388 16148.03 16172.03 1440.00 37 37.0 28.3 998 1.30 1871 2.6508 2.7393 0.00855 47 12-Aug-21 27401 16172.03 1440.00 38 37.5 28.7 1005.9 1.31 1893 2.6705 2.7816 0.00751 38 24-hor TS DATE SAMPLE NUMBER	18-Aug-21															
24-hour TSP Monitoring Data for AMS-6 DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG TEMP STANDARD PRESS STANDARD FLOW RATE VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED CAU-INT 6-Aug-21 27401 16148.03 16148.03 16140.00 37 38 4400 20 1008.9 1.40 2015 2.6967 2.7339 0.00872 33 30-Aug-21 27422 1624.04 1440.00	24-Aug-21	27490	11016.11	11040.66	1473.00	34	36	35.0	28.7	1005.9	1.27	1867	2.6942	2.7292	0.0350	19
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	30-Aug-21	27494	11040.66	11064.18	1411.20	28	31	29.5	29.1	1011.4	1.14	1606	2.7111	2.7350	0.0239	15
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	24-hour TSI	P Monitoring	g Data for A	AMS-6												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DATE			APSED TIM	1E	CHAR	RT REA	DING					FILTER WI	EIGHT (g)		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		NUMBER	INITIAL	FINAL	(min)	MIN			(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
18-Aug-21 27482 16196.03 16220.03 1440.00 38 42 40.0 29.5 1008.2 1.37 1978 2.7065 2.7816 0.0751 38 24-Aug-21 27337 16220.03 16244.04 1440.60 37 38 37.5 28.7 1005.9 1.31 1893 2.6721 2.7089 0.0368 19 30-Aug-21 27422 16244.04 16268.04 1440.00 36 41 38.5 29.1 1011.4 1.34 1929 2.7178 2.7624 0.0446 23 24-hor TSP Monitoring Data for AMS-7 ELAPSED TIME CHART READING AVG TEMP STANDARD PRESS STANDARD FLOW RATE AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP 6-Aug-21 27386 11424.21 11448.21 MIN MAX AVG (°C) (hPa) (m³/min) (std m³) INITIAL FINAL (g) (µg/m³) 6-Aug-21 27386 11424.21 11440.00 34 36 35.0 28.6 1006.2 1.26 1807 2.6561 2.6880<	6-Aug-21	27388	16148.03	16172.03	1440.00	37	37	37.0	28.3	998	1.30	1871	2.6508	2.7393	0.0885	47
24-Aug-21 27337 16220.03 16244.04 1440.60 37 38 37.5 28.7 1005.9 1.31 1893 2.6721 2.7089 0.0368 19 30-Aug-21 27422 16244.04 16268.04 1440.00 36 41 38.5 29.1 1011.4 1.34 1929 2.7178 2.7624 0.0446 23 24-hour TSP Monitoring Data for AMS-7 DATE SAMPLE ELAPSED TIME CHART READING AVG AVG KC KPMP AIR FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP Monitoring Data for AMS-7 CHART READING AVG CC (hPa) (m³/min) (std m³) INITIAL FINAL (g) (µg/m³) 6-Aug-21 27386 11424.21 11448.21 1440.00 34 36 35.0 28.3 998 1.26 1807 2.6561 2.6880 0.0319 18 12-Aug-21 27460 11448.21 11472.21 1440.00 34 36 35.0 28.6 1006.2 <t< td=""><td>12-Aug-21</td><td>27401</td><td>16172.03</td><td>16196.03</td><td>1440.00</td><td>38</td><td>44</td><td>41.0</td><td>29</td><td>1008.9</td><td>1.40</td><td>2015</td><td>2.6967</td><td>2.7639</td><td>0.0672</td><td>33</td></t<>	12-Aug-21	27401	16172.03	16196.03	1440.00	38	44	41.0	29	1008.9	1.40	2015	2.6967	2.7639	0.0672	33
30-Aug-21 27422 16244.04 16268.04 1440.00 36 41 38.5 29.1 1011.4 1.34 1929 2.7178 2.7624 0.0446 23 24-hour TSP Monitoring Data for AMS-7 DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG AVG AIR TEMP STANDARD PRESS AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP 0-Aug-21 27386 11424.21 11448.21 1440.00 34 36 35.0 28.3 998 1.26 1807 2.6561 2.6880 0.0319 18 12-Aug-21 27459 11472.21 1440.00 34 36 35.0 28.6 1006.2 1.26 1812 2.7123 2.7478 0.0355 20 18-Aug-21 27459 11472.21 1440.00 34 36 35.0 28.7 1008.2 1.28 1847 2.7166 2.7361 0.0195 11 24-Aug-21 27481 11496.21 150.22 1440.00 34	18-Aug-21	27482	16196.03	16220.03	1440.00	38	42	40.0	29.5	1008.2	1.37	1978	2.7065	2.7816	0.0751	38
24-hour TSP Monitoring Data for AMS-7 DATE SAMPLE NUMBER ELAPSED TIME CHART READING CHART READING AVG TEMP STANDARD PRESS AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG TEMP STANDARD PRESS STANDARD FLOW RATE AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP 6-Aug-21 27386 11424.21 11448.21 1440.00 34 36 35.0 28.3 998 1.26 1807 2.6561 2.6880 0.0319 18 12-Aug-21 27460 11448.21 11472.21 1440.00 34 36 35.0 28.6 1006.2 1.26 1812 2.7123 2.7478 0.0355 20 18-Aug-21 27459 11472.21 1440.00 34 38 36.0 29.5 1008.2 1.28 1847 2.7166 2.7361 0.0195 11	24-Aug-21	27337	16220.03	16244.04	1440.60	37	38	37.5	28.7	1005.9	1.31	1893	2.6721	2.7089	0.0368	19
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	30-Aug-21	27422	16244.04	16268.04	1440.00	36	41	38.5	29.1	1011.4	1.34	1929	2.7178	2.7624	0.0446	23
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	24-hour TSI	P Monitoring	Data for	AMS-7						•		•	•	•	•	
6-Aug-21 27386 11424.21 11448.21 1440.00 34 36 35.0 28.3 998 1.26 1807 2.6561 2.6880 0.0319 18 12-Aug-21 27460 11448.21 11472.21 1440.00 34 36 35.0 28.6 1006.2 1.26 1812 2.7123 2.7478 0.0355 20 18-Aug-21 27459 11472.21 1440.00 34 38 36.0 29.5 1008.2 1.26 1812 2.7123 2.7478 0.0355 20 18-Aug-21 27459 11472.21 1440.00 34 38 36.0 29.5 1008.2 1.28 1847 2.7166 2.7361 0.0195 11 24-Aug-21 27481 11496.21 152.022 1440.60 34 35 34.5 28.7 1005.9 1.25 1794 2.7251 2.7513 0.0262 15		SAMPLE	ELA	APSED TIM	1E			DING	TEMP		FLOW RATE		FILTER WI			
12-Aug-21 27460 11448.21 11472.21 1440.00 34 36 35.0 28.6 1006.2 1.26 1812 2.7123 2.7478 0.0355 20 18-Aug-21 27459 11472.21 11496.21 1440.00 34 38 36.0 29.5 1008.2 1.28 1847 2.7163 2.7361 0.0195 11 24-Aug-21 27481 11496.21 11520.22 1440.60 34 35 34.5 28.7 1005.9 1.25 1794 2.7251 2.7513 0.0262 15																
18-Aug-21 27459 11472.21 11496.21 1440.00 34 38 36.0 29.5 1008.2 1.28 1847 2.7166 2.7361 0.0195 11 24-Aug-21 27481 11496.21 11520.22 1440.60 34 35 34.5 28.7 1005.9 1.25 1794 2.7251 2.7513 0.0262 15	6-Aug-21															
24-Aug-21 27481 11496.21 11520.22 1440.60 34 35 34.5 28.7 1005.9 1.25 1794 2.7251 2.7513 0.0262 15	12-Aug-21	27460	11448.21	11472.21	1440.00					1006.2	1.26	1812	2.7123	2.7478	0.0355	20
č	18-Aug-21	27459								1008.2	1.28	1847		2.7361		
30-Aug-21 27056 11520.22 11544.22 1440.00 35 38 36.5 29.1 1011.4 1.30 1867 2.8125 2.8328 0.0203 11	24-Aug-21	27481	11496.21	11520.22	1440.60	34	35	34.5	28.7	1005.9	1.25	1794	2.7251	2.7513	0.0262	15
	30-Aug-21	27056	11520.22	11544.22	1440.00	35	38	36.5	29.1	1011.4	1.30	1867	2.8125	2.8328	0.0203	11



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Measu	uremen	nt Resul	ts (dB)	of NMS	2																
	Stant	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Lag20min	Limit
ATELL	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	9:25	55.4	57	52.9	54.8	57.2	51.5	55.7	57.4	52.4	55.5	56.9	53.6	57	58.2	55.2	66.6	70.4	56.2	60	70
9-Aug-21	11:03	61.3	62.7	58.7	62.8	65	57.2	63.8	66.8	59.5	64	67.7	57.9	62.5	64.5	57.3	63.6	66.1	59.7	63	70
20-Aug-21	9:13	62.6	63.5	61.6	62.6	63.8	61.2	66.8	70.7	62.6	62.4	63.6	60.9	63.2	64.9	61.6	63.4	64.2	62.5	64	70
26-Aug-21	16:11	63.8	65.2	60.3	62.2	65.6	58.6	63.8	66.4	58.9	64.4	67.6	58.8	64	67	58	63.6	66.8	58	64	70

Noise Measu	uremei	nt Resu	lts (dB)	of NM	S3																
	Start	1st	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (51	min)	Lag20min	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	10:09	54.9	57.6	51.2	54.8	56.7	51.2	55.1	56.8	52.3	55.9	57.0	43.3	55.9	57.4	52.9	53.9	57.1	46.1	55	75
9-Aug-21	15:06	64.2	67.3	59.1	65.0	68.0	58.6	62.7	65.2	57.2	64.3	67.4	59.4	63.5	66.6	59.5	65.4	67.9	59.8	64	75
20-Aug-21	14:09	67.5	69.1	65.6	67.8	68.9	66.6	67.7	68.9	66.2	67.6	69.0	65.9	67.9	69.1	66.6	68.2	70.0	66.2	68	75
26-Aug-21	9:34	62.7	65.6	59.3	64.5	67.3	60.7	62.7	66.9	60.6	61.7	65.7	59.7	63.3	67.4	60.0	62.5	66.2	59.5	63	75

Noise Mea	sureme	ent Resu	ılts (dB) of NM	[S4a																
	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date		Time Leq, L10, L90, Leq, L10,							L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	11:29	62.5	64.7	59.6	61.6	63.5	58.1	61.9	63.7	59.7	61.6	63.2	58.6	62.2	64.3	59	61.8	64.5	51.3	62	75
9-Aug-21	9:23	64.4	66.3	61.4	64.1	66.7	60.9	67.2	68.3	66	63.9	67.2	59	65	66	63.6	64.5	65.8	60.1	65	75
20-Aug-21	13:09	69.6	72.2	65.6	72.3	74.9	68.1	70.2	72.5	65.9	68.8	71.3	61.7	69.1	72.4	61.9	68.8	71.3	66.2	70	75
26-Aug-21	14:40	71.9	73.5	68.2	69.4	70.8	67.7	68.3	70.7	66	68.5	69.6	66.1	68.6	70.9	66	68.1	70.8	66	69	75

Noise Measu	ırement	Result	s (dB) o	f NMS5	5																
	Stort.	1st	Leq (5r	nin)	2nd	Leq (51	nin)	3rd	Leq (5r	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	T	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	13:19	54.8	56.7	50.2	55.9	57.3	53.8	55.8	57.3	53.4	55.2	56.9	52.4	56.2	57.9	53.5	54.3	56.7	44.9	55	75
9-Aug-21	10:17	66.7	67.9	60.3	64.1	66.4	59.9	65.1	68.1	60.4	65.7	68.8	59.5	65.2	68.2	61.2	64.7	67.1	60.5	65	75
20-Aug-21	11:24	70.6	73.7	62.4	71.7	74.2	63.1	70.4	73.9	63.6	65.4	68.1	60.4	67.4	70.4	59	68.8	70.6	60.1	70	75
26-Aug-21	15:25	66.4	67.3	63.6	65.5	67.3	63.2	66.7	67.5	64.7	65.2	67	63.2	65.4	66.8	63.5	66.1	67	64.5	66	75



Noise Meas	uremen	t Resul	ts (dB)	of NMS	56																
	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Log20min	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	10:51	60	64.5	54.6	55.6	57.6	51.5	54.6	57.6	38.4	56.3	58.5	50.3	57.3	59.8	51.3	57.6	60.1	52.3	57	75
9-Aug-21	15:41	67.9	71.2	62	67.4	70.1	63	65.9	68.8	60.8	65.1	69.4	58.6	65.5	68.1	60.3	66.3	68.3	58.6	66	75
20-Aug-21	10:38	69.8	72	64.5	67.2	69.5	63	68.2	71	64	70.3	72.5	64.5	69.2	71.5	63.5	68.3	71	63.5	69	75
26-Aug-21	11:07	66.1	69.2	62	65.6	67.3	62.2	66	69.1	63.6	65	67.4	62.6	64.2	66.5	62.6	64.5	66.5	62.5	65	75

Noise Measu	uremei	nt Resul	lts (dB)	of NMS	S7																
	Stant	1st	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (5)	nin)	4th	Leq (51	min)	5th	Leq (51	min)	6th	Leq (5)	min)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Aug-21	14:13	63.4	66	58	63.1	64.8	58.6	61.6	63.6	59.5	62.3	63.9	60.3	62.5	64.4	60.1	61.9	63.9	58.2	63	75
9-Aug-21	16:27	65.9	68.3	61.5	67.3	69.5	64.7	66.1	69.3	60.4	66.8	68.3	64.6	67.2	69.4	63.7	65.3	66.9	62.6	66	75
20-Aug-21	9:59	69.7	71	66.7	71.3	72.9	67	70.6	72.5	68	69.8	72.3	66.9	70.2	72.8	66.9	69	71.9	65.9	70	75
26-Aug-21	10:21	69.9	71.8	66.6	68.2	70.9	66	69.6	71.4	66	68.5	70.5	65.5	69.8	71.7	66.3	69.7	71.3	66.1	69	75

Noise Measu	Noise Measurement Results (dB) of NMS8																				
	Stant	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq30min, dB(A)	Level															
	Time	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)															
5-Aug-21	13:09	68.3	70.5	64	69.4	71.5	66	70.4	73	66	69.3	71.5	65	67.4	70	62.5	69.2	70.5	67	69	75
11-Aug-21	14:19	60.8	62	57.1	63.2	64.6	56.5	60.6	62.9	56.1	59.9	62.9	55.1	61.9	63.7	56.6	60.8	62.5	56	61	75
17-Aug-21	11:26	62.8	66	56.5	64.2	66.5	58	63.3	67	57.5	64.6	68.5	54.5	62.4	66	55	64.2	67	57.5	64	75
23-Aug-21	10:12	62.7	64.6	57	61.5	63.9	58	64.7	66.9	59.4	64.4	66.8	59.5	63.4	65.7	58.7	61	63.2	57.2	63	75



NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measu	Noise Measurement Results (dB) of CN1																				
	Start	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	dB(A)	Level															
	Time	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)															
5-Aug-21	9:34	64.7	65.2	60.9	61.1	61.7	59.1	61.5	62.8	59.3	63.6	63.8	59.6	67.2	69.6	58.8	64.8	66.9	57.2	64	70
11-Aug-21	16:01	60.8	61.6	59.5	60.2	60.6	59.9	63	67.4	59.7	65.3	68.8	58	61.4	62.8	58.5	63.1	63	58.6	63	70
17-Aug-21	13:59	59.3	61.5	56	59.6	60.5	57	60.2	62.5	55.5	59	60	55.5	58.9	61	57	59.1	62.5	57.5	59	70
23-Aug-21	17:18	63.5	67.5	59.4	65.6	68.3	58.8	61.8	62.6	58.5	62.7	63.7	58.7	59.7	60.3	57.8	59.2	60.5	58.7	63	70

Noise Measu	Noise Measurement Results (dB) of CN2																				
	Start	1st	Leq (5r	nin)	2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Lag20min	Limit
LINTA I	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
5-Aug-21	10:20	62.1	63.2	59.2	66.9	66.6	58.9	66.5	66.6	59.1	61.5	63	58.8	63.5	64.2	59.5	64	65.4	59.9	65	70
11-Aug-21	15:23	64.5	65.3	61.1	68.8	68	60	68.7	68.5	61	63.6	65.5	60.5	65.2	66.2	61.1	64.2	65.2	60.1	66	70
17-Aug-21	13:09	61.2	62.5	54	64.1	62	51.5	60.4	63.5	54.5	60.1	62.5	54.5	59	61.5	54.5	59.8	62	55.5	61	70
23-Aug-21	11:01	64.8	65.3	61.1	62.4	64.5	62.4	64	67.6	63.5	63.6	64.9	62.6	65.5	66.5	63.8	65.1	65.3	62.9	64	70

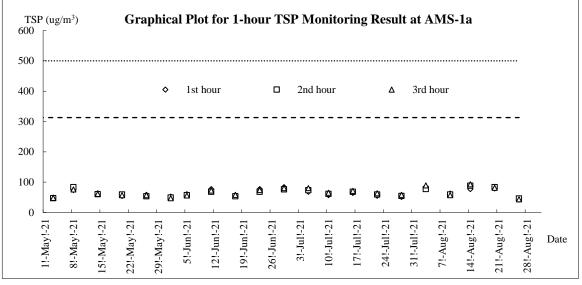
Noise Measure	Noise Measurement Results (dB) of CN3																				
	Start	1st	Leq (5r	nin)	2nd Leq (5min)			3rd Leq (5min)			4th Leq (5min)			5th Leq (5min)			6th Leq (5min)			Lag20min	Limit
Date	Start Time		L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
5-Aug-21	11:07	62.8	65.4	58.3	67.2	70.1	58.7	65.5	68.5	59.5	65.6	67.2	58.2	67.2	71.6	59.1	65.2	67.6	59.7	66	75
11-Aug-21	14:48	65.6	69.3	61	64.2	66.5	60.8	66.3	69.8	60.6	64.9	68.4	60.6	65.9	68.3	61.5	66.1	69.3	60.4	66	75
17-Aug-21	10:33	68.6	71.1	65.1	68.8	70.9	65.6	68.6	70.7	66	67.6	69.6	65.5	68.3	70.2	66.3	65.5	66.5	64.4	68	75
23-Aug-21	9:18	61.3	63.3	58.3	61.3	64	57.5	62.6	66.2	57.3	62.5	65.4	57.3	64.5	69.4	57.4	63.7	64.4	57.7	63	75

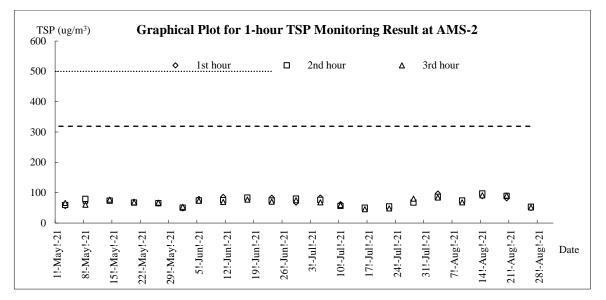
Appendix I

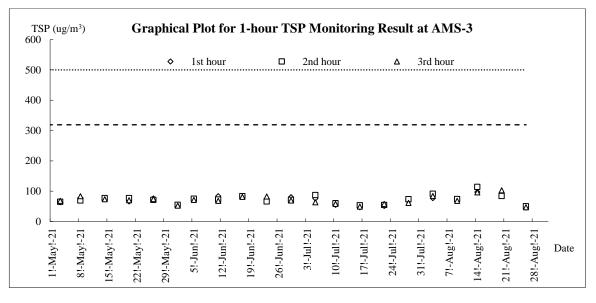
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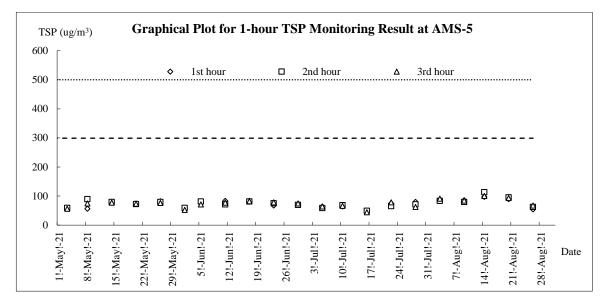
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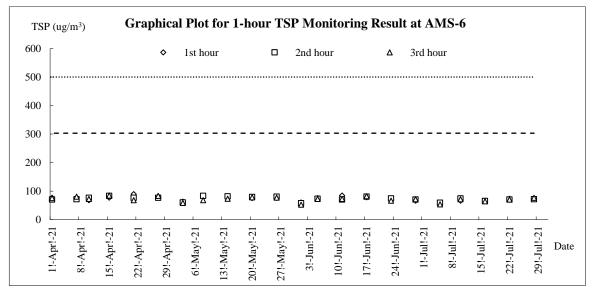


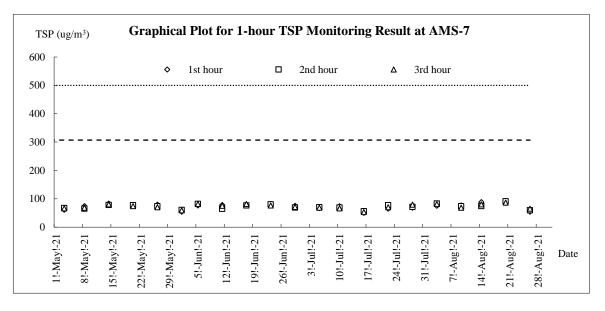








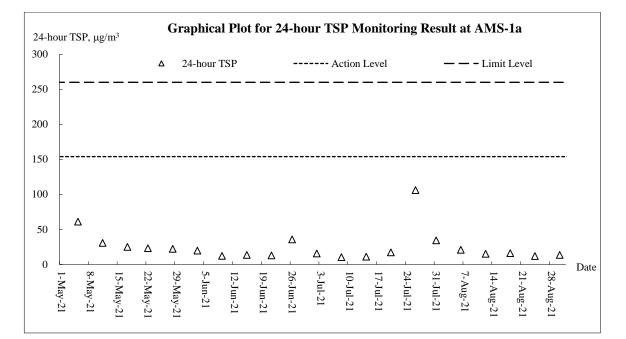


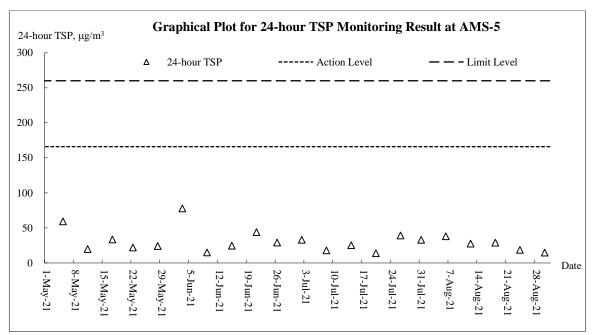


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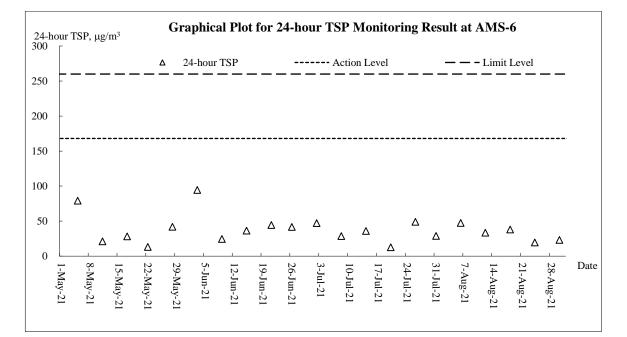
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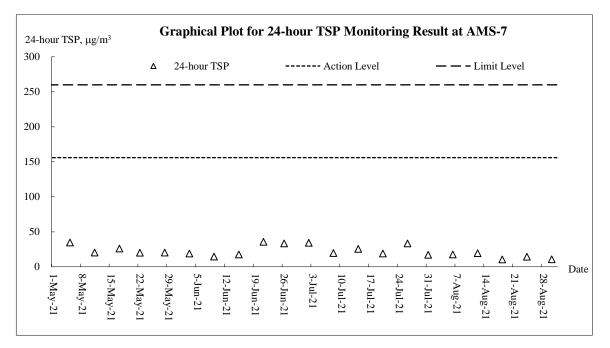




CEDD Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (August 2021)

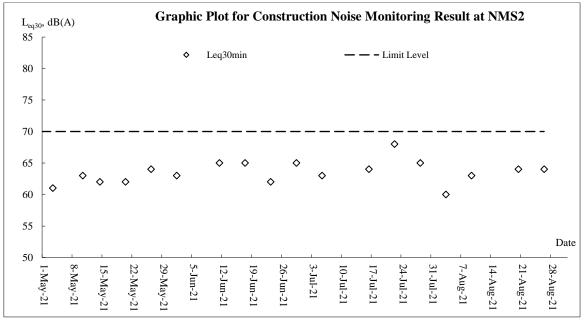


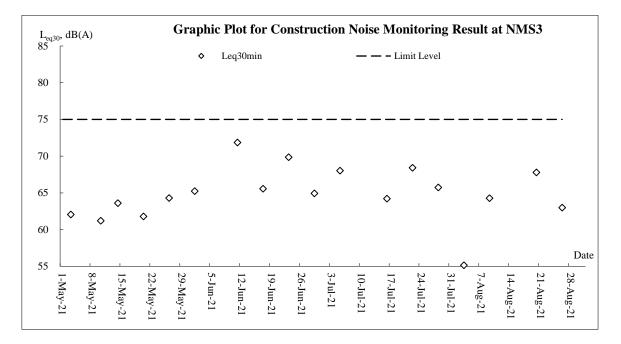


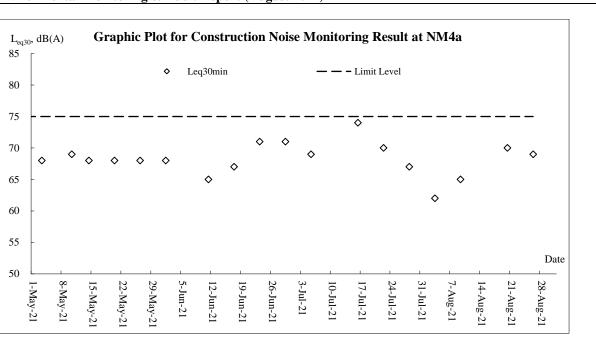




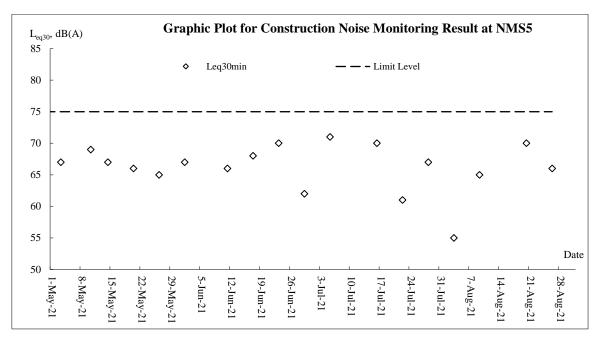
Noise



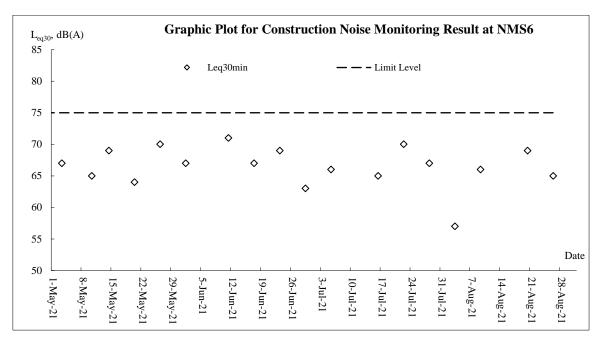


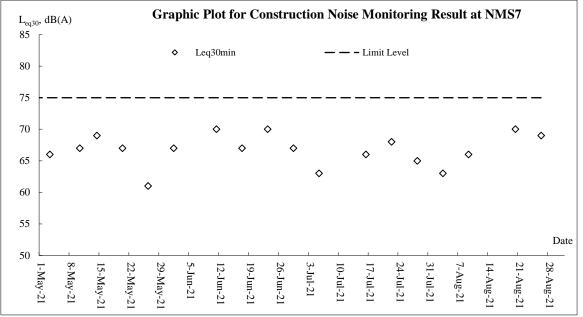


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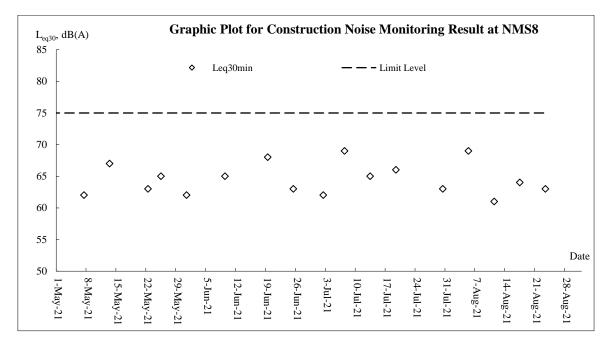


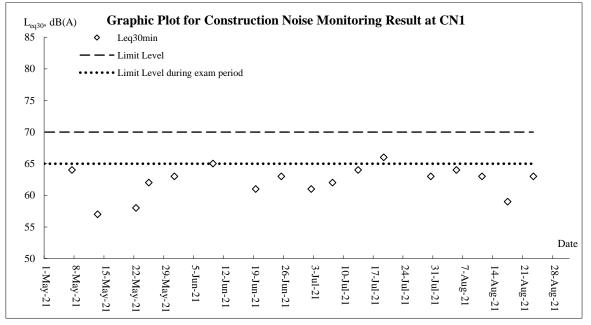




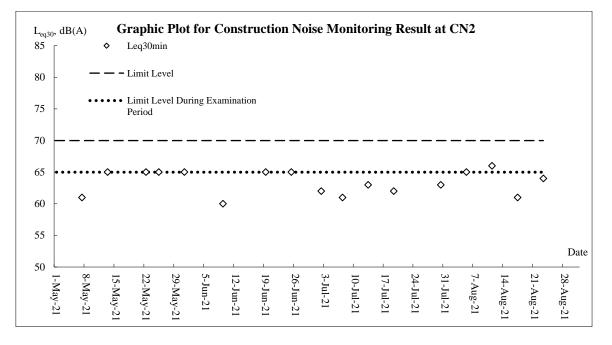


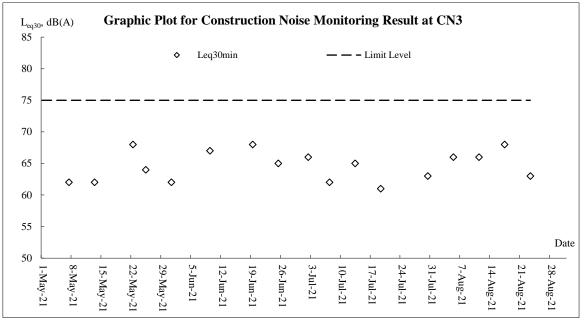














Appendix J

Meteorological Data



			Total	Kwun Tong Station	Kai Tal	k Station	King's Park Station
Date		Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Wind Direction	Mean Relative Humidity (%)
1-Aug-21	Sun	Moderate to fresh southwesterly winds	11.6	29.8	9.2	W/SW	80
2-Aug-21	Mon	Mainly cloudy with isolated showers.	Trace	31	7.5	W/SW	78.2
3-Aug-21	Tue	Moderate to fresh west to southwesterly winds	19.7	27.6	12	Е	87.5
4-Aug-21	Wed	Showers will be heavy at times.	41.9	29	11	N/NW	80.5
5-Aug-21	Thu	Cloudy with occasional showers and squally thunderstorms.	28.1	27.1	14.7	W	90
6-Aug-21	Fri	Cloudy with occasional showers and squally thunderstorms.	31	28.2	11.2	W/SW	89.2
7-Aug-21	Sat	Moderate to fresh southwesterly winds	0	29.5	10.5	W/SW	85
8-Aug-21	Sun	Hot with sunny periods during the day tomorrow.	3.1	29.2	8.7	W/SW	81.5
9-Aug-21	Mon	Mainly cloudy with occasional showers and thunderstorms.	36.3	28.7	10.5	S/SW	86.2
10-Aug-21	Tue	Moderate south to southwesterly winds.	17.3	28.7	9	S/SW	86.7
11-Aug-21	Wed	Mainly cloudy with isolated showers.	3	29.6	9.2	E/SE	81.5
12-Aug-21	Thu	Hot with sunny periods during the day tomorrow.	1	29	9	E/SE	82.5
13-Aug-21	Fri	Light to moderate southwesterly winds.	5.4	28.1	11.2	W/SW	80.7
14-Aug-21	Sat	Mainly fine. Very hot during the day tomorrow	2.2	27.3	10.5	E/SE	81
15-Aug-21	Sun	Isolated showers later.	5.7	27.6	8.7	E/SE	84.5
16-Aug-21	Mon	Light to moderate southwesterly winds.	3.9	28.9	8.7	SE	80.5
17-Aug-21	Tue	Mainly cloudy with a few showers and isolated thunderstorms.	0	30.1	8.5	W/SW	78.2
18-Aug-21	Wed	Sunny intervals in the afternoon.	0	30	9.2	W/SW	73.5
19-Aug-21	Thu	Light to moderate southerly winds.	34.6	29.1	8.7	SE	83
20-Aug-21	Fri	Light to moderate southerly winds.	Trace	30	7	W/SW	77.5
21-Aug-21	Sat	Hot with sunny periods and a few showers	0	30.3	10.5	SE	78
22-Aug-21	Sun	Mainly cloudy with isolated showers.	0	30.4	6.2	W/SW	69.5
23-Aug-21	Mon	Moderate to fresh southwesterly winds	Trace	30.8	7	SW	73.7
24-Aug-21	Tue	Light to moderate southerly winds.	23.7	29.3	11.2	SE	78.2
25-Aug-21	Wed	Hot with sunny periods and a few showers	1.1	29.6	11	E/SE	75
26-Aug-21	Thu	Sunny intervals in the afternoon.	2.2	29.7	7.5	SE	80
27-Aug-21	Fri	Moderate easterly winds, gusty at times.	29.3	25	17	E/SE	Maintenance
28-Aug-21	Sat	Hot with sunny periods and one or two showers.	22	26.8	15	E/SE	81
29-Aug-21	Sun	Moderate easterly winds.	13.9	27.1	16	Е	Maintenance
30-Aug-21	Mon	Light to moderate southerly winds.	Trace	29.1	13.7	E/SE	76.5
31-Aug-21	Tue	Mainly cloudy with isolated showers.	13.5	26.6	7.5	E/SE	80

Appendix K

Waste Flow Table

Contract No.: NE/2016/01

Site Formation and Infrastructure Works for Development of Anderson Road Quarry Site

				-	-						
		Actual Quan	tities of Inert C&I	O Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes C	Generated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 8)	Disposed as Public Fill	Imported Fill	Metals (see Note 9)	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	42.293	0.000	9.773	31.040	1.480	0.180	0.000	0.000	0.000	0.000	0.110
Feb	15.750	0.000	2.893	11.601	1.256	0.000	0.000	0.047	0.006	0.000	0.121
Mar	34.287	0.000	12.750	21.267	0.270	0.000	0.012	1.064	0.006	0.000	0.131
Apr	15.432	0.000	2.688	11.312	1.432	0.650	0.000	0.000	0.000	0.000	0.044
May	16.995	0.000	6.428	9.857	0.711	1.452	0.005	0.015	0.004	0.000	0.116
Jun	42.427	0.000	5.834	33.957	2.637	0.000	0.000	0.045	0.000	0.000	0.120
Sub-total	167.184	0.000	40.365	119.034	7.786	2.282	0.017	1.171	0.016	0.000	0.642
Jul	13.271	0.000	1.957	8.863	2.452	0.000	0.000	0.000	0.000	0.000	0.103
Aug	32.172	0.000	9.886	20.257	2.029	0.000	0.000	0.000	0.000	0.000	0.000
Sep											
Oct											
Nov											
Dec											
Total	212.627	0.000	52.208	148.153	12.266	2.282	0.017	1.171	0.016	0.000	0.745

Monthly Summary Waste Flow Table for <u>2021</u> (year)

Notes:

(1) The performance targets are given in PS Clause 1.119 (14).

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and waste will be collected by recycler for recycling.

(4) Use the conversion factor, density of general refuse (1 t/m^3) and inert C&D materials (2 t/m^3) .

(5) Use the conversion factor for chemical waste (0.88kg/L).

(6) Assume a dump truck delivers 7.5 m^3 material in 1 trip.

(7) The cut-off date of this summary is 20^{th} of each month.

(8) The Inert C&D materials of reused in other Projects including glass materials.

(9) The C&D waste generation of metal including rechargable battery recycling.

Name of Department : _CEDD

Contract No. : NE/2016/05

Monthly Summary Waste Flow Table for 2021 (year)

				-	[PS C]	lause 1.129]					
		Actual Quanti	ties of Inert C&	&D Materials G	enerated Mont	hly	Act	ual Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity 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 (see Note 3)	Chemicals 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	0.04	0	0	0	0.04	0	0	0	0	0	0,08
Feb	0.01	0	0	0	0.01	0	-0	0	0	0	0.05
Mar	0.02	0	0	0	0.02	0	0	0	0	0	0.15
Apr	0.05	0	0	0	0.05	0	0	0	0	0	0.29
May	0.12	0	0	0	0.12	0	0	0	0,	0	0.09
June	0.15	0	0	0	0.15	0	0	0	0	0	0.05
Sub-total	0.39	0	0	0	0.39	0	0	0	0	0	0.71
July	0.27	0	0	0	0.27	0	0	0	0	0	0.11
Aug	0.06	0	0	0	0.06	0	0	0	0	0	0.06
Sept				-		and the second		- 		_	
Oct			le a participa	- 		-	-	• 	- Constant and the second	-	-
Nov	-		-	-			-	- Cardoni Second		-	
Dec	-				- 	and and a start of the start of	An		ni Victoria de Canada de Canada Canada de Canada de C		. T. Alemannia
Total	0.72	0	0	0	0.72	0		- 0	0	0	0.88

Notes: (1)The performance targets are given in PS Clause 6.14

The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site. (2) (3)

Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works. Together with a breakdown of the nature (4) where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

Development of Anderson Road Quarry Site - Road Improvement Works and Pedestrian Connectivity Facilities Works Phase 2A

		Actual Quan	tities of Inert C&	D Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes (Generated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 6)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	1.858	0.000	0.000	0.349	1.509	0.000	0.000	0.057	0.006	0.000	0.159
Feb	2.713	0.000	0.023	0.253	2.438	0.000	0.000	0.000	3.472	0.000	0.057
Mar	3.793	0.000	0.143	0.746	2.905	0.000	0.000	0.000	0.210	0.000	0.102
Apr	0.869	0.000	0.000	0.000	0.869	0.000	0.000	0.000	0.238	0.000	0.032
May	1.173	0.000	0.000	0.126	1.047	0.000	0.000	0.055	0.776	0.000	0.027
Jun	1.134	0.000	0.000	0.000	1.134	0.000	0.000	0.000	0.980	0.000	0.034
Sub-total	11.542	0.000	0.165	1.474	9.903	0.000	0.000	0.112	5.682	0.000	0.411
Jul	1.068	0.000	0.000	0.000	1.068	0.000	0.001	0.596	0.239	0.000	0.033
Aug	5.846	0.000	0.000	0.000	5.846	0.000	0.000	0.000	0.308	0.000	0.066
Sep											
Oct											
Nov											
Dec											
Total	18.456	0.000	0.165	1.474	16.817	0.000	0.001	0.708	6.229	0.000	0.510

Monthly Summary Waste Flow Table for <u>2021</u> (year)

Notes:

(1) The performance targets are given in PS Clause 1.129 (4).

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and waste will be collected by recycler for recycling.

(4) Use the conversion factor, density of general refuse (1 t/m^3) and inert C&D materials (2 t/m^3) .

(5) Use the conversion factor for chemical waste (0.88kg/L).

(6) Assume a dump truck delivers 7.5 m^3 material in 1 trip.

Wing Lee – Univic Joint Venture	Rev. No.	5
ED/2019/02 - Environmental Management Plan	Issue Date	21 August 2021
Appendices - Appendix 13	Issue Date	31-August-2021

Name of Department : <u>CEDD</u>

Contract No. : _____ED/2019/02

Monthly Summary Waste Flow Table for 2021 (year)

;'	Annual Quantities of Inert C&D Materials Generated Monthly Annual Quantities of C&D Materials Generated Monthly										
				&D Materials G	enerated Mon	thly	Annu	al Quantities of	C&D Material	s Generated N	Ionthly
Month	Total Quantity 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 (see Note 2)	Chemicals 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											
Feb											
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0.03
June	0	0	0	0	0	0	0	0	0	0	0.01
Sub-total	0	0	0	0	0	0	0	0	0	0	0.04
July	0.01	0	0	0	0.01	0	0	0	0	0	0.02
Aug	0.04	0	0	0	0.04	0	0	0	0	0	0.10
Sept											
Oct											
Nov											
Dec											
Total	0.05	0	0	0	0.05	0	0	0	0	0	0.16

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

Appendix L

Implementation Schedule for Environmental Mitigation Measures



EM&A	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	the	Implementation Status					
Ref.		Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5		
Dust Impa	ct (Contraction Phase)				-	-	-			
S4.7.2 to S4.7.5	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.75 L/m ² to achieve the respective dust removal efficiencies.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V		
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		
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 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 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 <td>Minimize dust impact at the nearby sensitive receivers</td><td>Contractor</td><td>All construction sites</td><td>e</td><td>e</td><td>e</td><td>(Contraction of the second sec</td>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	e	e	e	(Contraction of the second sec		



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status Contract Contract Contract				
	 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, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site 				1	2	3		
S4.7.7	where the exposed earth lies. Implement regular dust monitoring under EM&A programme during the Construction phase.	Control construction airborne noise	Selected Representati ve dust monitoring station	All construction sites where practicable	V	N/A	N/A	N/A	
Noise Imp	act (Contraction Phase)		station						
\$5.6.9	 Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works; mobile plant should be sited as far away from NSRs as possible and practicable; and material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction ion airborne noise	Contractor	All construction sites where practicable	@	V	V	@	
	Use of "Quiet" Plant and Working Methods.	Reduce the noise	Contractor	All	V	N/A	N/A	N/A	

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EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the	Implementation Status				
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
\$5.6.13		levels of plant items		construction sites where practicable					
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	
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	N/A	
S5.6.19	Sequencing operation of construction plants equipment.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction ion sites where practicable	V	V	N/A	N/A	
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	
\$5.6.35	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected Representati ve Noise monitoring stations	V	N/A	N/A	N/A	
Water Qua	lity Impact (Contraction Phase)	·					•		
\$6.6.3	 <u>Construction Runoff</u> In accordance with the Practice Note for Professional Persons on Construction ion Site Drainage, Environmental Protect ion Department, 1994 (ProPECC PN 1/94), best management practices should be implemented as far as practicable as below: At the start of site establishment, perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or 	Control construction runoff	Contractor	All construction sites	@	@	@	V	

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EM&A Ref.		Objectives of the Recommended Measures & Main	implement the	nt Location of the measure	-				
Kti.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
•	 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. 								



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the		-	tation Status	
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
	 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 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. 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. 							
S6.6.6 and 6.6.7	 Sewage from Workforce Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be 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 	Handling of site sewage	Contractor	All construction sites	V	V	V	V



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the		Implemen	tation Status	
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
	anticipated.							
	• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction ion phase of the Project . Regular environmental audit on the construction ion site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measure							
S6.6.8 and 6.6.9	Accidental Spillage To prevent accidental spillage of chemicals, proper storage and handling facilities should be provided. All the tanks, containers and storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and storm drains. The Contractor is required to register as a chemical waste producer if chemical wastes would be generated from the construction ion activities. Storage of chemical waste arising from the construction ion activities should be well managed with suitable labels an d warnings while disposal of those chemical wastes should be comply with the requirement states in Waste Disposal Ordinance (Cap 354) as well as Waste Disposal (Chemical Waste) (General) Regulations.	Prevention of accidental spillage	Contractor	All construction sites	e	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	NA	NA	NA	N/A
	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.							



EM&A Ref.	Recommended Mitigation Measures	Objectives of th Recommended Measures & Mai	L	Who to implement the	Location of the	Implementation Status				
Kel.		Concern to Addre		measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
	The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Sect ion 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the select ion of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement . Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as PCRs should be removed as necessary by installing the petrol interceptor.									
Waste Mar	nagement (Contraction Phase)									
\$8.5.2	 <u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 	generation dur construction	aste ring	Contractor	All construction sites	V	@	V	V	
S8.5.2 (6)	The contractor should submit a Waste Management Plan (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.		aste ring	Contractor	All construction sites	V	V	V	V	
\$8.5.3	 <u>Waste Reduction Measures</u> 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; 	Reduce wa generation	aste	Contractor	All construction sites where practicable	V	V	V	V	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status				
Kei.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
	 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. 								
S8.5.5	 <u>Storage of Waste</u> The following recommendation should be implemented to minimize the impacts: waste such as soil should be handled and stored well to ensure secure containment; stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; different locations should be designated to stockpile each material to enhance reuse; 	Minimize waste impacts from storage	Contractor Contractor	All construction sites	V	V	V	V	
S8.5.6	 <u>Collection and Transportation of Waste</u> The following recommendation should be implemented to minimize the impacts: 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. 	Minimize waste impacts from storage	Contractor	All construction sites	V	@	V	@	
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 	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	V	
<u>\$8.5.15</u>	 Use of Standard Formwork and Planning of Construction Materials purchasing Provision of wheel wash facilities Contaminated Soil 	Remediate	Contractor	All	V	V	N/A	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	-					
Kei.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5		
	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.	contaminated soil		construction sites where applicable						
S8.5.17	 <u>Chemical Waste</u> 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. 	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	V	V	V	V		
S8.5.18	 <u>General Waste</u> <u>General refuse</u> 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	@		
\$8.5.19	 Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts. 	Minimize production of sewage impacts	Contractor	All construction sites	V	V	v	V		
	ontraction Phase)	1	-	I	I	1	1	1		
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 / horticulturis t / Certified Arborist to supervise	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	N/A		



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the	Implementation Status				
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
			the planting).						
.10.7.10	 Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include: Temporary sewerage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses; Proper locations well away from nearby watercourses will be used for temporary storage of materials (i.e. equipment, fill materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works; To prevent muddy water entering nearby watercourses, work sites close to nearby watercourses will be isolated, using such items as sandbags or silt curtains with lead edge at bot tom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the works site; Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses; Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses; Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses; Exposed soil will be covered as quickly as possible following format ion works, followed, where appropriate, by covering with biodegradable geotextile blanket for erosion control purposes; Where appropriate, earth-bunding will be carried out of areas where soils have been disturbed or where vegetation has been cleared, to ensure that surface runoff will not move soils off-site; Construction ion effluent, site run-off and sewage will be probably collected and/or treated. Wastewater from any construction ion site will be minimised via the following in descending order: reuse, recycling and treatment; Proper locations	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status				
Kel.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
S.10.7.11	 Implement an emergency contingency plan during the construction phase and the plan will include, but not be limited to, the following: Potential emergency situations; Chemicals or hazardous materials used on-site (and their location); Emergency response team; Emergency response procedures; List of emergency telephone hot lines; Locations and types of emergency response equipment , and Training plan and testing for effectiveness. 	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	N/A	N/A	N/A	N/A	
Landscape	and visual (Contraction Phase)	-		-		-			
S11.14.23 , Table 11.9, CM1 [4]	All existing trees to be retained shall be carefully protected during construction.	Avoid disturbance and protection of the existing trees	Detailed Design Consultant /	The whole project area where applicable	V	V	V	@	
S11.14.23 , Table 11.9, CM2 [3]	Tree Transplantation - Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled. Detailed transplanting proposal will be submit ted to relevant government departments for approval in accordance with LAO GN No. 7/2007 , <i>ETWB TCW No. 29/2004</i> and <i>10/2013</i> . Final locations of transplanted trees shall be agreed prior to commencement of the work.	Minimize landscape impact and retention of landscape resources	Detailed Design Consultant /	Onsite where possible. Otherwise consider offsite locations	*	N/A	V	V	
S11.14.23 , Table 11.9, CM3 [4]	Control of operation night -time glare with well-planned lighting operation system to minimize potential glare impact to adjacent VSRs	Minimize glare impact to adjacent VSRs	Contractor/ CEDD	The whole project area where applicable	V	V	V	N/A	
S11.14.23 , Table 11.9, CM [4]	Erection of decorative screen hoarding.	Minimize visual impact	Contractor/ CEDD	The whole project area where applicable	N/A	N/A	N/A	N/A	
S11.14.23 , Table 11.9, CM5 [2]	Minimise disturbance and limitation of run-off – temporary structures and construction works should be planned with care to minimize disturbance to adjacent landscape, vegetation, natural stream habitats.	Minimize visual impact	Contractor/ CEDD	The whole project area where applicable	V	V	V	N/A	

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

Appendix M

Complaint Log

Appendix M1 Cumulative Complaint and Summons/ prosecution

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

April 2021	1	0
May 2021	0	0
June 2021	1	0
July 2021	1	0
August 2021	0	0
Overall Total	68	0

Appendix M2 C

Complaint Log

1	23-Mar- 17		On Tat Estate	On Tat	tructi	SPRO hotline	NA	A resident living in On Tat 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.		TCS00864/ 16/300/F00 87
2	28-Jul-1 7	28-Jul- 17	38/F of Yin Tat House (賢達 樓), On Tat Estate	On Tat	tructi	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.	no comment by IEC on 9 Aug 2017	
3	29-Aug- 17		Shing Tat House 24/F	On Tat	tructi	SPRO hotline	NA	Mr. Hsu Yau Wai (Tel no.9519 5663) reported that he received complaint from a resident (Ms Cheng) living at Shing Tat House 24/F Room 22 about the noise generated from our site this week. The noise heard was mainly rock breaking noise from our site.	Noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 3pm on 30 Aug 2017. No exceedance of	5	TCS00864/ 16/300/F00 81
4	21-Jun- 17	g-17	Tat Yan House, Po Tat Estate	nt of Po Tat	tructi	EPD	EPD (ref.N0 8/RE/0 00193 73-17)	day time construciton noise of breakers (8am to 6pm)	5	no comment by IEC on 3 Nov 2017	TCS00864/ 16/300/F00 93



5	22-Jun 17	- 29-Au g-17	Tat Yan House, Po Tat Estate	nt of	Dust & Cons tructi on noise	EPD	EPD (ref. N08/R E/0001 9428-1 7)	Day time construction noise of breakers (8AM to 6PM). Requested to delay the operating hour of breakers to 10AM or 11AM	information by the Contractor of Contract 1 - NE/2016/01 (CWSTVJV) as 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.		TCS00864/ 16/300/F00 93
6	15-Jul 7	1 29-Au g-17	Tat Yi House, Po Tat Estate	1014	Cons tructi on noise		EPD (ref.N0 8/RE/0 00224 79-17)	Construction noise	To eliminate the inconvenience	no comment by IEC on 3 Nov 2017	TCS00864/ 16/300/F00 94
7	28-Jul 7	1 29-Au g-17	Anderso n Road	unkno wn	Dust	EPD	EPD (ref.N0 8/RE/0 00239 86-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby	no comment by IEC on 15 Nov 2017	



8	27	2-Aug-1	29-Au g-17	House, On Tot	On Tat	tructi		EPD (ref.N0 8/RE/0 00245 57-17)	Day time construction noise of breakers (8AM to 6PM)	eliminate the inconvenience caused	IEC on 15 Nov	TCS00864/ 16/300/F00 98
9		9-Sep- 7	19-Sep -17	Sau Mau Ping Estate Sau Nga House	Sau Mau		SPRO hotline	INA	The complainant is living at Sau Mau Ping Estate Sau Nga House (秀雅樓) 38/F. He complained about the noise nuisance recently from August to September especially during night time after 12:00 am, even in Saturdays and Sundays. The noise nuisance caused a great disturbance to him. He made a request to conduct investigation about the source of the noise during night time.	activities such as excavation and	IEC on 18 Oct	TCS00864/ 16/300/F00 88

10	21-Sep- 17		Sau Mau Ping Estate Sau Nga House and Sau Yee House	Reside nt of	Cons tructi on noise	EPD	EPD (ref.N0 8/RE/0 00310 74-17)	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- 17	13-Oct -17	Chun Tat House, On Tat Estate	Reside nt of On Tat Estate	tructi	EPD	8/RE/0 00294	there were 6 to 7 breakers operating in the monring but only 1 operating in the afternoon. He requested to shift the operation of the breakers to afternoon.	According to the impact noise monitoring result obtained in September and October 2017, there		TCS00864/ 16/300/F01 06
12	3-Oct-1 7		Chun Tat House, On Tat Estate	_	tructi	IEPD	EPD (ref. N08/R E/0003 2407-1	Day time construction noise, the complainant requested using less breaker at one time, erecting taller noise barrier to cover the equipment. In addition, the complainant would like to know the construction schedule whether there will be more breaking activities in near future	nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate.	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 06
13	25-Oct- 17	126_0 Ct	Tat Kwai House, Po Tat Estate	Reside nt of Po Tat Estate	Dust	EPD	NA	投訴安達臣道地盤的泥車落 泥,令他達貴樓的住所受到大塵 影響,要求跟進及回覆	Investigation revealed that CWSTVJV has implemented dust mitigation measures to eliminate the	no comment by IEC on 15 Nov 2017	



								miti	vised to enhance the dust itigation measures particularly ring dry season.		
14	6-Nov-1 7	7-Nov- 17	House,	On Tot	Nois e	EPD	NA	安達邨俊達樓居民投訴石礦場 地盤又再於早上 07:45 開始傳出 機器不停揼石的噪音(幾乎每日 在 08:00-19:00 進行工程),已持 續一年,他全家人受到滋擾。	tigation massures to reduce the	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 09
15	13-Nov- 17	14-No	Chi Tai House, On Tai Estate	Mr. Lam Wai	light pollu tion and noise	SPRO hotline		1. 智泰樓面向安達臣地盤方 CW 向,有照射燈深夜時分仍然常 and 開,影響居民正常睡眠質素,照 For 成一定的精神壓力。 CW 2. 隔音布未固定,大風吹過發出 the 極大的聲浪 Esta	WSTVIV has immediately fixed	no comment by IEC on 24 Nov 2017	

16	1-Nov-1 7	v-17	Shing Tat House, On Tat Estate	Reside nt of Po Tat Estate	Nois e	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。	To enhance the noise mitigation measures, CWSTVJV deployed an acoustic mat as noise barrier for the breaking work in order to reduce construction noise affecting the upper floor of On Tat Estate Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 13 Dec 2017	
17	25-Aug- 17	26-Oct -17	Sau Yee House, Sau Mau Ping Estate	nt of Sau	Cons tructi			Night time construction noise of hammering (around 12AM)	not generate significant noise.	no comment by IEC on 14 Dec 2017	



18	12-Sep- 17	26-Oct -17	nouse,	Reside	Cons tructi on Nois e	EPD		Day time construction noise of breakers (8AM to 5PM)		no comment by IEC on 10 Jan 2018	TCS00864/ 16/300/F01 17
19	15-Dec- 17		Sau Yee House	Sau Mau	tructi	EPD	NA	Resident of Sau Yee House complained suspected construction noise from Anderson Construction Site at restricted hour (7pm to 7am).	out after 19:00 at the subject site.	no comment by IEC on 10 Jan 2018	TCS00864/ 16/300/F01 18
20	20-Dec- 17		On Tat	Reside nt of On Tat Estate	Dust	EPD	NA	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 揚起沙塵,吹到安達邨,影響空	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/ 16/300/F01 21



2	28-Dec- 17		Sau Yee House	nt of Sau Mau	Cons tructi on Nois e	CE's office	NA	Thomas 先生吵醒,懷疑有人刻 Level under the EM&A Programme.	no comment by IEC on 8 Feb 2018	TCS00864/ 16/300/F01 29
2	 15-Jan- 18	-18	Chun Tat House	Tat House	Cons tructi on Nois e	SPRO mobile	NA	completion date of the breaking EM&A requirement. However, to	no comment by IEC on 8 Feb 2018	TCS00864/ 16/300/F01 30



										project did not breach the Noise Control Ordinance.		
2	3	1-Feb-1 3	2-Feb- 18	Chi Tai House of On Tai	Estate (referr ed by	tructi	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/ 16/300/F01 37
2	4	1-Feb-1 3	18	Shing Tat House of On Tat Estate	House (referr		SPRO hotline	NA	Mr. Hsu reported that some disturbing noise was heard after 6:00 pm from the site near Shing Tat House of On Tat Estate.	AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was	no comment by IEC on 28 Feb 2018	TCS00864/ 16/300/F01 40



									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.		
2	5 28-Feb- 18	28-Feb -18	Shing Tat House of On Tat Estate	Reside nt of Shing Tat House	tructi on Nois	EPD	NA	安達邨誠達樓居民,投訴人是返 夜班,一年半以來長期受對出地 盤日間揼石仔噪音滋擾,由於單 位與地盤太近,堅持環保署跟進 及回覆如何處理及減低噪音,他 亦要求知道何日完工.	Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking works shall tentatively be completed by end of April and it is believe that the noise impact should be minimized. Since the works were carried out within the non-restricted hours and noise monitoring noise were within acceptable level, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 19 Mar 2018	TCS00864/ 16/300/F01 43

26	11-Apr- 18	12-Apr -18	of On Tat	nt of Him Tat	tructi	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 completion date of the CWSTVJV on 20 April 2018, noise barrier 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 	
27	25-Apr- 18	7-May -18	Street and Hiu Ming Street	but name of	Cons tructi on Nois e	EPD	NA	This case is considered as an enquiry and no investigation is required under the EM&A Programme.	
28	18-May -18	y-18	Anderso n Road Quarry Site	Undisc	Cons tructi on Nois e		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	

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									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.		
2	9 25-Ju 18	9-Jul- 8	Connecti vely E8 under Contract 3	DC membe r Ms	\mathcal{O}	CEDD	NA	regarding accumulation of dead leaves and branches found at slope (GLA-TNK 2458) near Hiu Yuk Path on 25 June 2018. The complainant requested the relevant department to clear the	the site cleanliness. Since the construction work has not yet commenced and the dead leaves and overgrown branches were not related project works, it is considered that	no comment by IEC on 24 Sep 2018	TCS00864/ 16/300/F01 89b
3	0 22-A 18	.9-Au -18	Hong	Hong	tructi on	1823 Hotlin e	NA	吳先生於 2018 年 8 月 22 日致電 1823 熱線投訴,指馬游塘區堆填 區往將軍澳方向行車入口因配 合項目需要而進行移除山坡工 程,但其鑽地鑿石的噪音嚴重影 響藍田康雅苑*居民,要求有關 部門跟進。*註:投訴人於 2018 年 8 月 27 日更正指受影響屋苑 應為藍田康華苑。	mitigation measures as appropriate, such as maintain good site practice including intermittent use of machine and plant and Sequencing operation of construction plant equipment.	no comment by IEC on 7 Sep 2018	TCS00864/ 16/300/F01 96a

				Anderso n Road Quarry Site	Undisc losed	Cons tructi on Nois e	EPD	NA	安達邨誠達樓後面地盤,2月26 日晚,晚上7時後,還在落石屎, 相片拍攝時間大概晚上9時半, 一直至晚上十一時五十分還有 工程車在地盤行駛。影響居民休 息。	with valid CNP were completed at 23:00. It is considered that the complaint was not valid to the	IEC on 10 Oct	TCS00864/ 16/300/F01 97a
-	32	6-Sep-1 8	18	Tsui Yeung House	Reside nt of Tsui Yeung House	tructi on	Verbal	NA	Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours.	implemented continuously during slope construction work and the slope	IEC on 22 Oct	TCS00864/ 16/300/F02 01
	33	24-Oct- 18	25-Oct -18	E3	DC membe	Cons tructi on Nois e	Whats app Messa ge	NA	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	IEC on 23 Nov	TCS00864/ 16/300/F02 09a



			un					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.		
3.	12-Nov- 18	Anderso n Road Quarry Site	House(referre	on	SPRO Hotlin e	NA	Mr. Hui reported that he received complaint from a resident living in Ching Tat House about noise nuisance recently. Mr. Hui asked if project team can arrange some noise monitoring to check the noise level at the concerned flat or the same level at Ching Tat House.	be closely updated to nearby stakeholders to enhance	no comment by IEC on 12 Dec 2018	TCS00864/ 16/300/F02 22a

35	14-Nov- 18	14-No v-18	Anderso n Road Quarry Site	Undisc	Light and Nois e		NA	凌晨1時,地盤仍有大光燈正射 民居和機器移動聲音,影響附近 居民睡眠及違反環保條例。	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. In our investigation, acoustic barrier	no comment by IEC on 3 Jan 2019	TCS00864/ 16/300/F02 23a
36	13-Nov- 18	14-No	Anderso n Road Quarry Site	Undisc losed	Nois e and dust	1823		Complainant requested to postpone the starting time of construction work at project site and also to solve the problem of construction noise and dust.	of the construction site is 8am to 6pm and there were no violation of the	no comment by IEC on 18 Feb 2019	TCS00864/ 16/300/F02 24

37	9-Dec-1 8	12-Dec -18	Anderso n Road Quarry Site	Undisc losed	Cons tructi on noise	2-4927 90730 5	do not to violate	vided by CWSTVJV, e activities e access road as e complainant. The ck carried out on y compliance with ment. In response , CWSTVJV was ely monitor the plant e of night work and CNP conditions.	no comment by IEC on 10 Jan 2019	TCS00864/ 16/300/F02 30a
38	19-Dec- 18	27-Dec -18	Anderso n Road Quarry Site	Undisc losed	Cons tructi on noise	2-4948 07412 7	on 3 January 201 implemented mit provided by CW inspected. It we 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.	tigation measures STVJV was as observed that measures including barrier, acoustic mat acoustic materials on site. However, advised to extend the barrier as far as fully enclose the s area which has been January 2019. were carried out estricted hours, it is he works under the reach the Noise	IEC on 31 Jan	TCS00864/ 16/300/F02 37a
39	24-Jan- 19	29-Jan -19	Anderso n Road Quarry Site		waste water	NA	DSD has referred a case to CEDD In our investigation 24 January 2019 regarding catchpit and U-cl suspended illegal discharge of received the runce comentitious slurry from Road as well as the Anderson Ro of ARQ Site to nearby Public is suspected that found on the dow	hannel mainly off from Po Lam the discharge from bad Quarry Site. It	IEC on 29 Mar	TCS00864/ 16/300/F02 48a



									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.		
2	 30-Jan- 19	-19	Anderso n Road Quarry Site	Undisc losed	noise	SPRO hotline	NA	A public complaint was received by SPRO hotline on 30 January 2019 regarding the construction noise near Ma Yau Tong Village and requested to add noise barrier as soon as possible.	the construction noise were within	no comment by IEC on 15 Mar 2019	TCS00864/ 16/300/F02 49a
2			Anderso n Road Quarry Site	Undisc losed	noise		2-4948 07412 7	1823 has referred a case to 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). The complainant requested for the details of works and the completion date, the complainant also requested CEDD to use other construction methods in order to	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	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 51a

42	21-Feb- 19	Anderso n Road Quarry Site	Undisc losed	noise	EPD	NA	The resident from Sau 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 measure has lessen as time goes. Follow action is requested.	such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment	no comment by IEC on 28 Mar 2019	TCS00864/ 16/300/F02 50
43	21-Feb- 19	Anderso n Road Quarry Site	Undisc losed	noise	receive d by DEVB and referre d to CEDD	NA	A public complaint was received by DEVB and referred to CEDD on 25 February 2019 regarding on the noise generated from the construction works of the Anderson Road Quarry Site affecting a local resident residing at the Anderson Road Squatter Area	continually. Alterative quiet work method was adopted such as drilling the hard rock before the breaking work to reduce the breaking duration	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 52a

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44	1-Mar-1 9	26-Feb -19	('ontract	Undisc losed	noise	CEDD		te th sir fu A complaint is forwarded by fa CEDD which was received by pr KTDC member Mr CHENG in Keung Fung from the residents of Tsui Yeung House(翠楊樓) about ra the noise nuisance generated and er the working time up to 7:00 pm in from the rock excavation of E3 lift in tower. Follow up action is m requested.	rocess is expected to be completed n mid-April to end of April 2019. <i>Ar.</i> Cheng was satisfied with the apid response from CEDD and the ngineering team. In our nvestigation, Kwan On has mplemented noise mitigation	no comment by IEC on 6 May 2019	TCS00864/ 16/300/F02 64
45	16-Jun- 19	18-Jun	Anderso n Road Quarry Site	Undisc losed	noise	EPD	NA	EPD referred a case to CEDD on 17 June 2019 regarding the construction noise heard at On Tat Estate on Sunday.	ot involve the use of Powered	IEC on 21 August	TCS00864/ 16/300/F03 01a

46	12-Jul-1 9	15-Jul- 19	Anderso n Road Quarry Site	Undisc losed	dust	EPD	Tat Estate and On Tat Estate due to the dust emission at Anderson Road Quarry site. Hong Kong and the dust impact was considered not significant in addition to the dust mitigation measures implemented provided by the Contractor. Nevertheless, the ET will closely monitor the environmental performance and dust mitigation measures in subsequent site inspection. The IR is under reviewed by IEC.	no comment by IEC on 12 August 2019	TCS00864/ 16/300/F02 92b
47	6-Aug-1 9	14-Au g-19	of Hiu Ming	(北)邨 物業 服 新 藤	Nois e	1823	1 0	no comment by IEC on 16 Sep 2019	TCS00864/ 16/300/F03 10a

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48	15-Oct- 19	18-Oct -19	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Intercha nge Pedestri an Connecti vity Facilitie s E12)	Mr. Ng	Nois e	1823	NA	Connectivity Facilities E12. The nuisance to the public. As the complainant expressed that the works were carried out within the construction noise was generated from breaking work at 8:20 am without noise mitigation measure, not breach the Noise Control which causing nuisance to the ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 13 Nov 2019	TCS00864/ 16/300/F03 26a
49	5-Nov-1 9	11-No v-19	Work Area Portion 2&3 (lift tower construc tion work at Hiu Kwong Street)		Nois e	EPD	NA	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 by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3). Kwong Street (Portion 2&3).	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 32a

50	7-Nov-1 9	11-No v-19		Mr. Cheng	Nois e	EPD	NA	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	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 33a
51	10-Nov- 19	12-No v-19	Underpa ss	Undisc losed	Nois e	EPD	NA	遮擋,聲音直向4至22號村屋, 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	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public Since the works were	no comment by IEC on 30 Dec 2019	TCS00864/ 16/300/F03 37





52	11-Nov- 19	20-No v-19	Estate Ancillar y Facilitie s Building	Wir. Wong (reside nt of Yung Tai House of On	Nois e	1823	ref. 2-5976 30318 3	noise nuisance near On Sau Road of the temporary noise barriers such	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 38a
53	5-Mar-2 0		Tunnel work of Anderso n Road Quarry Site (the Underpa ss)	nt of On Tat	Nois e	EPD	NA	received by EPD on 5 March 2020 Immediately installed a layer of	no comment by IEC on 1 Apr 2020	TCS00864/ 16/300/F03 57a



54	4-Mar-2 0	r-20	Near Hiu Ming Street Playgrou nd (E8)		Nois e		ref. 3-6283 23717 1	樓附近有兩個地盤 , 地盤由星 期一至五,每天早上約 9AM-5 PM 持續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 two construction sites near Hiu Ming Street Playground generated construction noise continuously during 9AM to 5PM	measures for the works at upper section of E8 near Hiu Yuk Path and no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. It is considered	no comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 59a
55	23-Mar- 20		Near Lin Tak Road (E11)	Undisc		Project hotline	NA	時左右不時有泥水從地盤流出路面,估計泥水是清洗工程車輛所致,令梁先生的車輛每次駛經時被濺濕及弄污,請問有何措施改善問題? A public complaint was received by project hotline on 23 March 2020 regarding overflow of muddy water from the construction site. The complainant mentioned that muddy water came out from site	washing facilities at site exit of E11 is one of the dust quality mitigation measures conducted by CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection	no comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 60a

56	17-Mar- 20	r-20	Anderso n Road Quarry Site	Reside nt of Yan Tat House	Nois e	Project hotline	NA	*	IEC on 11 May	TCS00864/ 16/300/F03 61a
57	1-Apr-2 0	20-Apr	Work Area Portion 2	Undisc losed	Nois e	1823	NA	雷郵回覆工程長的原因及有沒 nuisance to the public. It is concluded		TCS00864/ 16/300/F03 66a



								construction site in Hui Ming as far as practicable as recommended Street. The complainant in the EM&A Programme. concerned about the slow progress and implementation of noise mitigation measures to alleviate the noise impact arising from the construction work.		
58	11-May -20	12-Ma	Work Area Portion 2	Undisc losed	Nois e	Project hotline	NA	陳先生住於翠楊樓 17 樓,投訴 對面鑽石工程產生噪音對母親 健康構成影響,現查詢完工日 期、噪音監控標準及措施。 A 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, construction noise level standard and implementation of noise mitigation measures on site.	no comment by IEC on 28 May	TCS00864/ 16/300/F03 70a



59	18-Jun- 20	23-Jun _20	Anderso n Road Quarry Site, System B	Undisc losed	Nois e	EPD	NA	percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm. According to the information provided by the complainant, it is suspected complaint location would be Anderson Road Quarry Site, System B.	no comment by IEC on 17 July 2020	TCS00864/ 16/300/F03 91a
59 #	23-Jul-2 0	24-Jul-	Anderso n Road Quarry Site near On Tat Estate	Undisc losed	Nois e	EPD	NA	Road Quarry Site near On Tat mitigation measures, there were no	no comment by IEC on 25 August 2020	TCS00864/ 16/300/F04 01

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60	14-Nov- 20	18-No	0	Undisc losed	Nois e	1823	NA	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	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-2 0			Undisc losed	Dust	EPD	NA	A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site opposite to On Tai Estate had dust emission problem due to lack of water spraying. He/she requested relevant department to follow up	resident. In view of the potential	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 34
62	3-Dec-2 0	7-Dec- 20	Ma Yau Tong Village (East Portal)	Undisc losed	Nois e and dust	1823 & EPD	3-6574	arising from the project. There	Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 35



63	7-Jan-2 1	7-Jan- 21	System B	Reside nt of Yan Tat House	Nois e	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 relevant department to follow up.	not breach the Noise Control	IEC on 19 July	TCS00864/ 16/300/F04 41
64	18-Mar- 21		Anderso n Road Quarry Site (betwee n On Tat Estate and On Tai Estate)		Nois e	1823 & EPD	NA	18 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am everyday which causing noise disturbance to the nearby resident and he/ she requested relevant department to	Ordinance. Nevertheless, as the	no comment by IEC on 1 April 2021	TCS00864/ 16/300/F04 54
65	1-Apr-2 1	1-Apr- 21	Lohn'e	Undisc losed	Nois e	EPD	NA	A complaint was received by EPD and referred to CEDD on 1 April 2021 regarding the construction noise. The complainant mentioned that piling work was conducted at construction site near SKH St. John's Tsang Shiu Tim Primary School in recent week	works were carried out within the	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 58a

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				School (System B under Contract 3)					mitigation measures provided in the construction site	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		
6	6	28-Mar- 21	30-Ma r-21	Quarry Site (betwee n On Tat Estate and On	House of On	Nois e	EPD	K13/R E/0000 7086-2 1	generated from construction works at Anderson Road Quarry Site until 9pm on Monday to Saturday. Moreover, the complaint concerned about the construction poise heard on 28	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	no comment by IEC on 22 April 2021	TCS00864/ 16/300/F04 59
6	7	11-Jun- 21	11-Jun -21	Anderso n Road Quarry Site	l at	Nois e	EPD	EPD Ref.: 13208- 21	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	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 78a

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									the Tai Sheung Tok slope) and no mitigation measure was implemented for the rock breaking works.			
6	58	20&21/J une/21	23-Jul- 21	Anderso n Road Quarry Site	DSD	Wate r Quali ty	EPD	EPD Ref.: 13208- 21	EPD received complaints from DSD on 20 and 21 July 2021 concerning about discharge of muddy water as found on Po Lam Road and at the drainage facility near Tin Hau temple.	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. In view of the site condition and inclement weather condition on the complaint days, it is considered that the complaints raised by DSD were unlikely due to the C1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.	no comment by IEC on 6 August 2021	TCS00864/ 16/300/F04 85b



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



Q4. Wastewater treatment facility Temporary Water Reservoir 150 cu.m + AquaSed of 60 cu.m per hour



Q6: Wastewater treatment facility 24 cu. m.

