

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 (NOVEMBER 2020)**

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date **Reference No. Prepared By Certified By** 15 December 2020 TCS00864/16/600/R0425v2

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Version	Date	Remarks
1	7 December 2020	First Submission
2	15 December 2020	Amended according to the IEC's comments on 8 December 2020

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Civil Engineering and Development Department	Your reference:	
East Development Office		
8/F, South Tower, West Kowloon Government Offices	Our reference:	HKCEDD10/50/106953
11 Hoi Ting Road		
Yau Ma Tei	Date:	17 December 2020
Kowloon		

Attention: Mr Leung Siu Kau, Kelvin

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 (November 2020)

We refer to the emails of 7 and 15 December 2020 from Action-United Environmental Services and Consulting attaching a Monthly Environmental Monitoring and Audit Report (November 2020) 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 Ricky Lau on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

Independent Environmental Checker

LYMA/LCCR/lsmt

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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.
- ES04 This is the 44th monthly EM&A report presenting the monitoring results and inspection findings for the period from 1 to 30 November 2020 (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	
Air Quality	1-hour TSP	6	90	
All Quality	24-hour TSP	4	20	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	7	29	
Construction Noise	$L_{eq(30min)}$ Daytime for Contract NE/2017/03	3	15	

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 but one 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.

Environmontol	Manitaring	Action	I imit	Event & Action			
Environmental Aspect	Monitoring Parameters		Limit Level	NOE Issued	Investigation	Corrective Actions	
Ain Opelity	1-hour TSP	0	0	0	NA	NA	
Air Quality	24-hour TSP	0	0	0	NA	NA	
Construction Noise	L _{eq(30min)} Daytime	1	0	0	Non-project-related	NA	



ENVIRONMENTAL COMPLAINT

ES07 In the reporting period, there was one noise complaint received for Contract 3. Investigation had undertaken by ET upon receipt of the complaint. The environmental complaints received in the reporting period and the statuses are summarized in Section 8.

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 No reporting change was made 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 5th, 10th, 18th and 24th November 2020 in which IEC joined the site inspection with SSEMC on 5th November 2020. 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 6th, 11th, 18th and 25th November 2020 in which IEC joined the site inspection with SSEMC on 18th November 2020. 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 6th, 13th, 20th and 25th November 2020 in which IEC joined the site inspection with SSEMC on 6th November 2020. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- ES13 During dry season, the Contractors should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement.
- ES14 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.
- ES15 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- ES16 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.



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1. INTRODUCTION

1.1 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.
- 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 44th monthly EM&A report presenting the monitoring results and inspection findings for the period from 1 to 30 November 2020 (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 8 Environmental Complaints and Non-Compliance Section 9 Implementation Status of Mitigation Measures Conclusions and Recommendations Section 10



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.

2.2 **PROJECT ORGANIZATION**

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

2.3 CONSTRUCTION PROGRESS

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

Contract 1 (NE/2016/01)

Temporary Traffic Arrangement (TTA) at On Sau Road:

• Implementation of TTA at the junction between On Sau Road and Road L4 for road improvement works to continue

Pedestrian Connectivity System B:

- PC system B substructure backfill work to continue.
- Bamboo Scaffold Erection for external ABWF works.

Construction of Internal Road L1:

- Excavation and laying of watermain to continue.
- Road work, footpath and cycle track at L1 east to continue.
- Gullies and upper drainage construction for road L1 west to continue.

Box Culvert BC1 at Internal Road L1:

- Dia.1500mm drainage pipes installation at BC1 bay1 to continue.
- Defect rectification work is to continue

Construction of Internal Road L2

- Site formation works to continue.
- Drainage pipe lower and middle level complete, upper level and gully pipe to continue
- Watermain works and UU laying to continue

Retaining Wall RWA9 at Road L3

- Backfilling and SRT of RWA9 Bay 1- Bay10 to continue
- Trimming of pile head of bored pile no. RWA9-P1&P2 to continue.
- Base slab construction of Bays 15 and 16 to continue.
- Wall construction of RWA9 Bay 11 to Bay 15 to continue
- Lower level drainage in progress.
- Construction of manhole SMH1, TM26a &TM26 to continue.

Retaining Wall RWA10 at Road L3

- RWA10 Bay 7 wall construction to continue.
- Backfill behind Bays 4 to 16 to continue.

Box Culvert BC2 at Internal Road L3:

Backfilling at Bay 17 chamber structure to continue.

Construction of Internal Road L5:

Concrete kerb construction and road base, base course laying to continue.



Water Pumping Station including Retaining Wall RWA13 and RWA14:

- Backfill at retaining wall RWA13 & RWA14 (Bay 15) to continue.
- To continue the watermain works outside Water Pumping Station.
- To continue the Metal Works (i.e.: chequer plate.).
- To continue with the ABWF Works (i.e.: floor)
- To continue with the E&M Works.
- To continue the mass concrete fill works at slope A13.

Water Reservoir

- To continue excavation works (including rock breaking) for drainage.
- To continue drainage works (manhole construction and pipe laying).

Artificial Flood Attenuation Lake

- To continue laying granular bed, HDPE membrane and concrete lining works at remaining part of lake bottom.
- To continue sub soil drain laying work at bottom of Lake.
- To continue with drainage works.
- To continue excavation of floating bridge footing.
- To commence the construction of floating bridge footing.

Underground Stormwater Retention Tank (USRT)

- Backfill around USRT in progress.
- Backfill around Ventilation Duct area to continue.

Internal Road L4, Pedestrian Connectivity System A, Noise Barrier, RWA12 and RWA18:

- RWA12 Bays 22 and 23 wall construction to continue.
- Construction of gully for road drainage manhole R428 and R429 construction to continue
- System A south piling work to continue. Pile loading test to continue
- Excavation and pipe laying for DN300 fresh watermain and NS125 salt watermain to continue.
- Excavation and road lighting ducting works to continue
- Construction of additional buttress wall to continue
- Road works (laying sub-base and kerb construction) to be carried out

PC System A

- North Tower pile cap construction to continue.
- Sump pit construction to continue.
- Subway SYA-SW1 construction to continue.
- South Tower removal of concrete block wall to continue.
- South Tower forming of no-fines concrete slope to continue.

PTT

 Drainage work at Row A& B C&D, D&E complete, gully pipe and down pipe catchpit in progress.

Slope Stabilization at Portion B1:

Continue to carry out stabilization works at Feature No. 11NE-D/C1004, 11NE-D/C1005, Slope A15b, 11NE-D/C947, 11NE-D/C949, 11NE-D/C976 and 11NE-D/C977

Slope Stabilization at Portion B5

- Continue to erect inspection scaffolds from 2nd to 8th berm
- Continue to carry out stabilization works at Feature No. 11NE-D/C949 and 11NE-D/C948

Road Improvement Works at Po Lam Road:



• Construction of permanent footpath and surface drainage system to continue

MEP Works:

- Submission of designs and materials related to MEP works to continue.
- E&M installation works at Pump Hall of Fresh Water Pumping Station to continue.
- E&M installation works at Pedestrian Connectivity System B to continue
- E&M installation works at USRT to commence

Site Formation Work at Portion B7 & B15:

• Chainlink fence and UC construction at land parcel R2-5 & Portion B15 to continue.

Site Formation Work at Portion B3:

- UC construction at land parcel C-5 to continue.
- Chainlink fence installation and UC construction at land parcel R2-7 and C-1 to continue.

Site Formation Work at Portion B14:

Backfilling and proof rolling/ SRT at Portion B14 to continue.

Site Formation Work at Portion E2 & E3:

Backfilling & SRT of fill slope zone of Portion E2 & E3 to continue

Site Formation Work at Portion A1 (land parcel R2-8):

• Backfilling, proof rolling chainlink fence and UC construction at land parcel R2-8 to continue.

Site Formation Work at Portion A-1 (land parcel G-1):

Chainlink fence & UC construction at land parcel G-1 completed.

Site Formation Work at Portion G3, G4, G5 & Slope A6:

- Excavation to formation level at land parcel G3, G4, G5 to continue.
- Chainlink fence installation and UC construction at land parcel G4 & G5 to continue.

Cavern (Portion B5):

- Rock fall fence installation complete.
- Rock mapping of Sub Area 5 slope at Ch0-Ch40 on level +208mPD 210.5mPD to continue.
- Rock breaking of existing slope at Ch40-240 on level +204-206mPD to continue
- Rock dowel construction at Ch40-140 on level+206+208.5 to continue
- Planter wall construction to continue.

Underpass, East and West Portal:

- Box Culvert BC 3 Bay 10,11 at East Portal structure works to continue
- Box Culvert BC3 Bay 11 &12, Excavation work in progress
- Safety precaution measure completed for site formation works at East Portal.
- Site Formation works at East Portal in progress.
- West Portal Structure works in progress.
- Relocation of the Fire Hydrant at Po Lam Road in progress.

Contract 2 (NE/2016/05)

- 1. Portion 1:
 - Continue Piling works for Pile Cap E1 –PC4 and E1-PC5; and
 - Backfilling with no-fines concrete around pile cap E1-RS1, E1-PC1 and E1-PC2.
- 2. Portion 2: Rock breaking for E3-F1.
- 3. Portion 3: Relocation of existing pedestrian crossing
- 4. Portion 4: Rectification of defects



- 5. Portion 5:
 - Footing construction of the covered walkway footing BBI-NB-F2,F1a, F1b.
 - Footing construction for Northern and Southern High Mast footings
 - Drainage Works
- 6. Portion 6:
 - -Rock breaking for rock cut slope and BBI Footing.

-Fixing formwork, reinforcement and place concrete for RWE12.

Contract 3 (NE/2017/03)

Works in Road Improvement Works 1 (RIW1)

- Earth works (such as temporary soil nail, form working platform etc), RC works and no-fine concrete construction at RWC2 in-progress;
- Backfilling works at west side of KS27 subway extension is in progress;
- RC works for noise barrier in-progress;
- Gasmain laying (by Towngas company) works is in-progress; Road and drainage works at Slip Road 2 will commence after gasmain diversion works

Works in Road Improvement Works 2 (RIW2)

- Earth works (such as temporary soil nail, form working platform etc), RC works at Slope C3 is in progress;
- Utilities works at SE2 is in-progress;

Works in Road Improvement Works 3 (RIW3)

- Mini-pile construction at RWD1 along Sau Mau Ping Road was completed. RC works for RWD1 Bay 1 – 10 was in progress. ELS works for RWD1 Bay 11 – 14 was in progress.
- Construction of retaining wall RWD2 at Slope D2 was in-progress;
- Rock excavation works using drill and split method at Slope D3 along Lin Tak Road was in-progress;
- Construction of mass concreting retaining wall at slope crest of Slope D3 was in-progress;
- No-fines concrete construction at slope crest of Slope D3 is in progress;
- Inspection Pit for UU at Sau Mau Ping Road is in progress.

Pedestrian Connectivity Facility E8 (PC-E8)

- RC works for escalator pit E7/E8 and E11/E12 were in-progress;
- ELS works for construction F8 abutment was in-progress.

Pedestrian Connectivity Facility E11 (PC-E11)

- ELS works, pile cap construction works and preparation works for drainage diversion works at PC1 were in-progress;
- Construction of RC structure at PC6 was in-progress;
- Construction of pier head at PC2 PC5 were in-progress;
- Preparation works for steel-frame fabrication at off-site fabrication yard is on-going.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- RC construction works for sub-structure was completed;
- Backfilling to ground level and preparation works for construct above-ground structure were in-progress;

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- Construction of RC pier at P6 and P7 is in-progress;
- Gasmain diversion works (by Towngas) at PC2 is in-progress;
- Cable diversion works (by CLPE) at PC1 is in-progress.

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



- Carry-out outstanding works and additional works. •
- 2.3.2 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 1, 2 and 3 are presented in Tables 2-1, 2-2 and 2-3.

Table 2	-1 Status of Environme	ntal Licenses and Pern	its of the Contract 1			
		Licen	se/Permit Sta	tus		
Item	Description	Permit no./ account	Valid F	Period	Stat	
		no./ Ref. no.	From	То	Sta	
1	Form NA – Notification	EPD ref. no. 411762	NA	NA	val	

Status of Environmental Lie Table 2.1 nana and Day mits of the Co at 1 - 4 -

Item	Description	Permit no./ account	Valid I	Period	C4a4ma
		no./ Ref. no.	From	То	Status
1	Form NA – Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 411762	NA	NA	valid
	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-RE0865-20	13 Nov 20	12 Feb 21	valid

Table 2-2	Status of Environmental Licenses and Permits of the Contract 2
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		License/Permit Status				
Item	Description	Permit no./ account	Valid Period		Status	
		no./ Ref. no.	From	То	Status	
1	Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 312173	NA	NA	valid	
2	Chemical Waste Producer Registration	Registration no. WPN 5213-294-K2890-08	3 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	
5	Construction Noise Permit	GW-RE0587-20	13 Jul 20	25 Nov 20	Valid	
		GW-RE0966-20	20 Nov 20	19 Feb 21	Valid	

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



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		License/Permit Status				
Item	Description	Permit no./ account	Valid	Period	Status	
		no./ Ref. no.	From	То		
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	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	
	– Discharge License	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	



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 5-1 Summary of Elvice A Requirements			
Environmental Issue	Parameters		
Air Quality	• 1-hour TSP by Real-Time Portable Dust Meter; and		
Air Quality	24-hour TSP by High Volume Air Sampler		
Noise	 Leq(30min) in normal working days (Monday to Saturday) 07:00-19:00 except public holiday 		
Noise	• Supplementary information for data auditing, statistical results such as L ₁₀ and L ₉₀ shall also be obtained for reference.		

Table 3-1 Summary 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 3-2	Impact Monitoring Stations – Air Quality
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ID	ASR ID		Identified Location during	Status
12	in EIA	EM&A Manual	Site Visit	
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
		Site E	On Tat Estate facing the	
			project site	
AMS-6	DARE-17	Block 9, Site E	Main roof of Hau Tat House of	Active
			On Tat Estate facing the	



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

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.

Table 3-3	Impact Mo	onitoring	Stations –	Construction Noise
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ID	NSR ID in EIA	Location	Status	
NMS-1	Site C2 –	Ground of planned school at DAR facing the	Not yet	
	School 05 Note 1	project site	commenced	
NMS-2	Site E – School	Rooftop of S.K.H. St. John's Tsang Shiu Tim	Active	
(@)		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 façade	Suspended	
		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 the Active		
		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 House	Rooftop of Yung Tai House where 1m from	Active	
	of On Tai Estate	the exterior of the building facing the project		
		site)		
NMS-7~	Chi Tai House	Rooftop of Chi Tai House where 1m from the	Active	
	of On Tai Estate	exterior of the building facing the project site		
NMS-8^	No. 3-4 Ma Yau	1m from the exterior of the building façade	Active	
	Tong Village	and facing the construction site		

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

 Table 3-4
 Additional Impact Monitoring Stations – Construction Noise

3.4 MONITORING FREQUENCY AND PERIOD

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

Air Quality Monitoring

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

Noise Monitoring

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

3.5 MONITORING EQUIPMENT

Air Quality Monitoring

- 3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50)*, Appendix *B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to prove that the instrument is capable of achieving a comparable results to the HVS. The instrument should be calibrated regularly, and the 1-hour sampling shall be determined on yearly basis by the HVS to check the validity and accuracy of the results measured by direct reading method. The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.
- 3.5.2 All equipment to be used for air quality monitoring is listed in *Table 3-5*.



Table 3-5

Iuble e e	ini Quanty Montoring Eq	
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

Air Ouality Monitoring Equipment

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	B&K-2238
Calibrator	Rion NC-74, Rion NC-75 & B&K-4231
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

3.6 MONITORING METHODOLOGY

<u>1-hour TSP</u>

- The 1-hour TSP monitor was a brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler 3.6.1 & 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 pump to draw sample aerosol through the optic chamber where TSP is measured; (a.)
 - A sheath air system to isolate the aerosol in the chamber to keep the optics clean for (b.) maximum reliability; and
 - (c.) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.
- The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer 3.6.2 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:
 - A 8"x10" stainless steel filter holder: (b.)
 - A blower motor assembly; (c.)
 - A continuous flow/pressure recorder; (d.)
 - A motor speed-voltage control/elapsed time indicator; (e.)
 - (f.) A 7-day mechanical timer, and
 - A power supply of 220v/50 Hz (g.)
- 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 $0.6m^3/min$ and $1.7m^3/min$ 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 m^3/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
AMS-4	315	165	500	260
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

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

(*) 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

Monitoring Logotion	Action Level Limit Level in dB(A)		
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays		
NMS-1	When one or more documented	70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}	



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M	Action Level	Limit Level in dB(A)		
Monitoring Location -	Time Period: 0700-1900 hours on normal weekdays			
NMS-2(@)	complaints are received			
NMS-3(:)	-	75 dB(A)		
NMS-4*		75 dB(A)		
NMS-4a#		75 dB(A)		
NMS-5#		75 dB(A)		
NMS-6~		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)		

Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during Note 1: 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 The monitoring data recorded in the equipment will be downloaded directly from the system. equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- 3.8.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4. AIR QUALITY MONITORING

4.1 GENERAL

- 4.1.1 In the Reporting Period, air quality monitoring was performed at the active designated monitoring locations AMS-1a, AMS-2, AMS-3, AMS-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*.

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

	24-hour	1-hour TSP (µg/m³)				
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
2-Nov-20	49	3-Nov-20	9:32	68	73	69
7-Nov-20	43	9-Nov-20	13:30	65	70	64
13-Nov-20	61	14-Nov-20	9:17	70	73	66
19-Nov-20	33	20-Nov-20	13:44	59	62	57
25-Nov-20	41	26-Nov-20	13:33	68	70	73
Average (Range)	45 (33 - 61)	Averag (Range	-		67 (57 - 73)	

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

1-hour TSP (µg/m ³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading	
3-Nov-20	9:18	83	84	82	
9-Nov-20	9:06	82	79	78	
14-Nov-20	9:41	75	79	75	
20-Nov-20	9:10	74	76	80	
26-Nov-20	9:15	78	76	71	
Average		78			
(Ra	inge)		(71 - 84)		

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

	1-hour TSP (µg/m ³)					
Date	Start Time	1 st reading	2 nd reading	3 rd reading		
3-Nov-20	9:30	82	79	76		
9-Nov-20	12:15	72	77	70		
14-Nov-20	12:50	83	88	86		
20-Nov-20	12:20	80	85	82		
26-Nov-20	12:18	83	83	85		
Average		81				
(Ra	inge)		(70 - 88)			



Table 4-4 Summary of 24-nour and 1-nour 151 Monitoring Results (AMS-5)							
	24-hour		1-hour TSP (µg/m³)				
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
2-Nov-20	58	3-Nov-20	12:45	81	80	87	
7-Nov-20	63	9-Nov-20	9:21	80	85	79	
13-Nov-20	71	14-Nov-20	9:30	83	83	85	
19-Nov-20	30	20-Nov-20	9:30	77	76	71	
25-Nov-20	52	26-Nov-20	9:28	72	75	76	
Average	55	Avera	-		79		
(Range)	(30 - 71)	(Rang	e)		(71 - 87)		

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

Table	4-5
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Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-6)

	24-hour	1-hour TSP (μg/m³)				
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
2-Nov-20	62	3-Nov-20	13:00	78	79	80
7-Nov-20	65	9-Nov-20	9:51	80	84	86
13-Nov-20	52	14-Nov-20	9:45	73	78	79
19-Nov-20	25	20-Nov-20	9:45	75	77	72
25-Nov-20	57	26-Nov-20	9:55	72	74	72
Average (Range)	52 (25 - 65)	Averaş (Rang			77 (72 - 86)	

Table 4-6	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS	-7)

24 hour	1-hour TSP (µg/m ³)				
TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
72	3-Nov-20	13:41	79	82	88
113	9-Nov-20	12:48	73	73	75
96	14-Nov-20	13:21	82	85	88
51	20-Nov-20	13:11	82	77	74
57	26-Nov-20	12:53	81	80	80
78 (51 113)	Average (Panga)		80 (73 88)		
	(µg/m ³) 72 113 96 51 57	TSP (μg/m³) Date 72 3-Nov-20 113 9-Nov-20 96 14-Nov-20 51 20-Nov-20 57 26-Nov-20 78 Average	24-hour TSP (μg/m³) Date Start Time 72 3-Nov-20 13:41 113 9-Nov-20 12:48 96 14-Nov-20 13:21 51 20-Nov-20 13:11 57 26-Nov-20 12:53 78 Average	$\begin{array}{c c} 24\text{-hour} \\ \hline TSP \\ (\mu g/m^3) \end{array} \begin{array}{c} Date \\ \hline Date \\ \hline Start \\ Time \\ \hline 1^{st} \ reading \\ \hline 1^{st} \ reading \\ \hline 1^{13} \\ 9-Nov-20 \\ 13:41 \\ 78 \\ \hline 132 \\ 9-Nov-20 \\ 13:21 \\ 82 \\ 51 \\ 26-Nov-20 \\ 13:11 \\ 82 \\ 51 \\ 81 \\ \hline 78 \\ \hline Average \\ \hline \end{array}$	24-hour TSP (μg/m³) Date Start Time 1 st reading 2 nd reading 72 3-Nov-20 13:41 79 82 113 9-Nov-20 12:48 73 73 96 14-Nov-20 13:21 82 85 51 20-Nov-20 13:11 82 77 57 26-Nov-20 12:53 81 80 78 Average 80 80

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



5. CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.1.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations 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 **29** 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-Nov-20	62	64	67	67	69	68
9-Nov-20	65	66	67	68	72	67
20-Nov-20	67	67	61	62	62	59
26-Nov-20	66	67	64	63	63	61
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

	v 8				
	Construction Noise Level (L_{eq30min}), dB(A)				
Date	NMS8				
6-Nov-20	63				
12-Nov-20	59				
18-Nov-20	60				
24-Nov-20	62				
30-Nov-20	61				
Limit Level	75 dB(A)				

5.2.2 For the additional noise monitoring under Contract 3, a total of **15** 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	CN1	CN2	CN3			
6-Nov-20	62	57	64			
12-Nov-20	65	62	63			
18-Nov-20	65	59	67			
24-Nov-20	66	65	64			



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30-Nov-20	67	63	66		
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}	70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}	75 dB(A)		

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

5.2.3 As shown in Tables 5-1 and 5-2, no Limit Level exceedance was recorded in this Reporting Period. Moreover, one noise complaint (which triggered Action level exceedance) was received under the Project. The investigation for the noise complaint is included in Section 8 of the report.



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.

	Contr	ract 1	Cont	Contract 2		Contract 3	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	
Total generated Inert C&D Materials ('000m ³) (#)	20.847	-	0.12	-	0.246	-	
Hard Rock and Large Broken Concrete ('000m ³)	0.234	-	0	-	0	-	
Reused in this Contract (Inert) ('000m ³)	4.198	-	0	-	0.015	-	
Reused in other Projects (Inert) ('000m ³)	15.813	*	0	-	0.405	*	
Disposal as Public Fill (Inert) ('000m ³)	0.836	TKO 137	0.04	TKO 137	0.231	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.

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

	Contr	ract 1	Cont	tract 2	Contract 3	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0	-	0	-	0	-
Recycled Paper / Cardboard Packing ('000kg)	0.189	Licensed collector	0	-	0	-
Recycled Plastic ('000kg)	0	-	0	-	0.532	Licensed collector
Chemical Wastes ('000kg)	0.166	Licensed collector	0	-	0	-
General Refuses ('000m ³)	1.537	SENT	0.08	SENT	0.037	SENT



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 5th, 10th, 18th and 24th November 2020 in which IEC joined the site inspection with SSEMC on 5th November 2020. 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 November 2020	• During dry season, water spraying frequency should be increased for the haul road and exposed area to reduce dust generation. (General)	Reminder only.
10 November 2020	• The Contractor was reminded to provide water spraying to reduce dust impact (General)	• Reminder only.
18 November 2020	• Water spraying should be provided during handling dusty materials to reduce dust impact (PTT)	
24 November 2020	• The Contractor should provide acoustic mat for the breaker at Water Reservoir.	• To be followed up.
	• The Contractor was reminded to provide water spraying on site. (General).	• Reminder only.

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 6th, 11th, 18th and 25th November 2020 in which IEC joined the site inspection with SSEMC on 18st November 2020. 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
7 October 2020 (Last Reporting Period)	• Wetsep out of order was observed at portion 1. The Contractor was advised to ensure the Wetsep can function properly	• Wetsep can function properly.
28 October 2020 (Last Reporting Period)	• Accumulation of construction waste was observed at portion 1. The Contractor was advised to dispose it regularly.	Accumulation of waste was disposed regularly.
6 November 2020	• Chemical containers were observed on the ground at portion 2. The Contractor was advised to place chemical containers inside drip tray.	Chemical containers were removed from site area.



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	,

Date	Findings / Deficiencies	Follow-Up Status
	• The Contractor was reminded to spray water regularly at exposed work area at portion 1.	Reminder Only.
11 November 2020	 The Contractor was reminded to spray water regularly at exposed slope at portion 1 regularly. The Contractor was reminded to clean the mud trails at exit area of portion 1. 	Reminder only.Reminder only.
18 November 2020	 Excavator without NRMM label was observed at portion 2. The Contractor was advised to display the label properly. The Contractor was reminded to avoid place the construction materials near the TPZ. (Portion 2) 	 NRMM label was provided for excavator used within site area. Reminder only.
25 November 2020	• The Contractor was reminded to spray water regularly on exposed work area at top of portion 1.	• Reminder only.

Contract 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^{th} , 13^{th} , 20^{th} and 25^{th} November 2020 in which IEC joined the site inspection with SSEMC on 6^{th} November 2020. 7.2.3 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 November 2020	• The Contractor was reminded to remove stagnant water at E8.	• Reminder only.
13 November 2020	• Construction materials within tree protection zone should be removed.	Construction materials were removed.
20 November 2020	• No adverse environmental issue was observed.	• NA
25 November 2020	 The Contractor should dispose empty cement bags at System B. The Contractor was reminded to clear the sediment and stagnant water at U-channel at System B. 	To be followed up.Reminder only.



8. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

8.1 Environmental Complaint, Summons and Prosecution

8.1.1 In the Reporting Period, one environmental complaint was received for Contract 3 in relation to the construction noise.

Complaint received for Contract 3

- (a) A public complaint was received by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up. In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.
- 8.1.2 Besides, no summons and prosecution under the EM&A Programme was lodged for the project. Investigation for the complaint was undertaken by the ET and presented in following sections.
- 8.1.3 The complaint log and Investigation Reports issued in the Reporting Period are shown in *Appendix M*.
- 8.1.4 The statistical summary table of environmental complaint, summons and prosecution is presented in *Tables 8-1, 8-2* and *8-3*.

Departing Davied	Contract	Enviro	laint Statistics	
Reporting Period	no.	Frequency	Cumulative	Complaint Nature
1 Apr 2017 – 31 Oct 2020	1	0	44	Dust, Noise and light nuisance
21 Mar 2017 – 31 Oct 2020	2	0	10	Noise
31 May 2018 –31 Oct 2020	3	0	5	Waste Management, Noise, Water Quality
	1	0	44	NA
1 – 30 November 2020	2	0	10	NA
	3	1	6	Noise

 Table 8-1
 Statistical Summary of Environmental Complaints

 Table 8-2
 Statistical Summary of Environmental Summons

Departing Devied	Contract	Environmental Summons Statistics			
Reporting Period	no.	Frequency	Cumulative	Summons Nature	
1 Apr 2017 – 31 Oct 2020	1	0	0	NA	
21 Mar 2017 – 31 Oct 2020	2	0	0	NA	
31 May 2018 – 31 Oct 2020	3	0	0	NA	
	1	0	0	NA	
1 – 30 November 2020	2	0	0	NA	
	3	0	0	NA	

Table 8-3 Statistical Summary of Environmental Prosecution

Departing Devied	Contract	Environmental Prosecution Statistics			
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature	
1 Apr 2017 – 31 Oct 2020	1	0	0	NA	
21 Mar 2017 – 31 Oct 2020	2	0	0	NA	
31 May 2018 – 31 Oct 2020	3	0	0	NA	

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	1	0	0	NA
1-30 November 2020	2	0	0	NA
	3	0	0	NA



9. IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.1 GENERAL REQUIREMENTS

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

Table 3-1	Environmental wingation 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: <u>Temporary Traffic Arrangement (TTA) at On Sau Road:</u>

• Implementation of TTA at the junction between On Sau Road and Road L4 for road improvement works to continue

Pedestrian Connectivity System B:

- PC system B substructure backfill work to continue.
- Bamboo Scaffold Erection for external ABWF works.

Construction of Internal Road L1:

- Excavation and laying of watermain to continue.
- Road work, footpath and cycle track at L1 east to continue.
- Gullies and upper drainage construction for road L1 west to continue.

Box Culvert BC1 at Internal Road L1:

Defect rectification work to continue

Construction of Internal Road L2

• Site formation works to continue.



- Drainage pipe lower and middle level complete, upper level and gully pipe to continue
- Watermain works and UU laying to continue

Retaining Wall RWA9 at Road L3

- Backfilling and SRT of RWA9 Bays 1- Bay10 to continue
- Backfilling and SRT of RWA9 Bays 18-20 to continue.
- Mass concrete fill behind Bay 17 to continue.
- Trimming of pile head of bored pile no. RWA9-P1&P2 to continue.
- Base slab construction of Bay 16 to continue.
- Wall construction of RWA9 Bays 12, 14, 15 and 16 to continue
- Lower level drainage in progress.
- Construction of manhole SMH1, TM26a &TM26 to continue.

Retaining Wall RWA10 at Road L3

- RWA10 Bay 7 wall construction to continue.
- Backfill behind Bays 6 to 16 to continue.

Box Culvert BC2 at Internal Road L3:

Backfilling at Bay 17 chamber structure to continue.

Construction of Internal Road L5:

• Concrete kerb construction and road base, base course laying to continue.

Water Pumping Station including Retaining Wall RWA13 and RWA14:

- Backfill at retaining wall RWA13 & RWA14 (Bay 15) to continue.
- To continue the watermain works outside Water Pumping Station.
- To continue the Metal Works (i.e.: chequer plate.).
- To continue with the ABWF Works (i.e.: floor)
- To continue with the E&M Works.
- To continue the mass concrete fill works at slope A13.

Water Reservoir

- To continue excavation works (rock breaking) for drainage.
- To continue drainage works (manhole construction and pipe laying).

Artificial Flood Attenuation Lake

- To continue laying granular bed, HDPE membrane and concrete lining works at remaining part of lake bottom.
- To continue with drainage works.
- To continue excavation of the remaining floating bridge footing.
- To continue the construction of floating bridge footing.

Underground Stormwater Retention Tank (USRT)

- Backfill around USRT in progress.
- Backfill around Ventilation Duct area to continue.

Internal Road L4, Pedestrian Connectivity System A, Noise Barrier, RWA12 and RWA18:

- RWA12 Bays 22 and 23 wall construction to continue.
- Construction of gully for road drainage manhole R428 construction complete
- System A south piling work to continue. Pile loading test to continue
- Excavation and pipe laying for DN300 fresh watermain and NS125 salt watermain complete.
- Excavation and road lighting ducting works complete
- Construction of additional buttress wall complete
- Road works (laying sub-base and kerb construction) complete
- Excavation and traffic signal post ducting works to continue



PC System A

- North Tower wall construction to continue.
- Sump pit construction to continue.
- Subway SYA-SW1 construction to continue.
- South Tower forming of no-fines concrete slope to continue.
- South Tower extension of h-pile to continue

PTT

 Drainage work at Row A& B C&D, D&E complete, gully pipe and down pipe catchpit in progress.

Slope Stabilization at Portion B1:

 Continue to carry out stabilization works at Feature No. 11NE-D/C1004, 11NE-D/C1005, Slope A15b, 11NE-D/C947, 11NE-D/C949, 11NE-D/C976 and 11NE-D/C977

Slope Stabilization at Portion B5

- Continue to erect inspection scaffolds from 2nd to 8th berm
- Continue to carry out stabilization works at 11NE-D/C949 and 11NE-D/C948

Road Improvement Works at Po Lam Road:

Construction of permanent footpath and surface drainage system to continue

MEP Works:

- Submission of designs and materials related to MEP works to continue.
- E&M installation works at Pump Hall of Fresh Water Pumping Station to continue.
- E&M installation works at Pedestrian Connectivity System B to continue
- E&M installation works at USRT to continue

Site Formation Work at Portion B13

• Excavation to formation level to continue.

Site Formation Work at Portion B7 & B15:

• Chainlink fence and UC construction at land parcel R2-5 & Portion B15 to continue.

Site Formation Work at Portion B3:

- UC construction at land parcel C-5 to continue.
- Chainlink fence installation and UC construction at land parcel R2-7 and C-1 to continue.

Site Formation Work at Portion B14:

Backfilling and proof rolling/ SRT at Portion B14 to continue.

Site Formation Work at Portion E2 & E3:

Backfilling & SRT of fill slope zone of Portion E2 & E3 to continue

Site Formation Work at Portion A1 (land parcel R2-8):

 Backfilling, proof rolling chainlink fence and UC construction at land parcel R2-8 to continue.

Site Formation Work at Portion A-1 (land parcel G-1):

Chainlink fence & UC construction at land parcel G-1 completed.

Site Formation Work at Portion G3, G4, G5 & Slope A6:

- Excavation to formation level at land parcel G3 to continue.
- Chainlink fence installation at land parcel G3 to continue.

Cavern (Portion B5):



- Rock fall fence installation complete.
- Rock mapping of Sub Area 5 slope at Ch0-Ch40 on level +208mPD 210.5mPD to continue.
- Rock breaking of existing slope at Ch40-240 on level +204-206mPD to continue
- Rock dowel construction at Ch40-140 on level+206+208.5 to continue
- Planter wall construction to continue.

Underpass, East and West Portal:

- Box Culvert BC 3 Bay 10,11 at East Portal structure works to continue
- Box Culvert BC3 Bay 11 &12, Excavation work in progress
- Safety precaution measure completed for site formation works at East Portal.
- Site Formation works at East Portal in progress.
- West Portal Structure works in progress.
- Relocation of the Fire Hydrant at Po Lam Road in progress.
- 9.2.2 Construction activities for Contract 2 in the coming month are listed below:
 - Portion 1: Continue grouting works for piles at Pile Cap E1 –PC3. Construction for pile cap E1 –PC3 & E1 –PC5. Construction of Pier E1-P1. Backfilling with no-fines concrete around pile cap E1-PC6.
 - Portion 2: Existing lighting removal
 - Installation of rock dowel and shotcreting.
 - Portion 3: Rock Excavation for E2-F4. Tree branch pruning of Tree No. P-T00967.
 - Portion 6:
 - Drainage work
 - Cable diversion.
 - Fixing formwork, reinforcement and place concrete for RWE12
- 9.2.3 Construction activities for Contract 3 in the coming month are listed below:

Road Improvement Works 1 (RIW1)

- Site formation, ELS works & RC works at RWC2;
- Backfilling works at KS27;

Road Improvement Works 2 (RIW2)

- ELS at Zone 6 & 7;
- Retaining wall construction for Bay 2 to 8;
- Remove piling platform at CT4 and utilities diversion works;
- Predrilling works at SE2.

Road Improvement Works 3 (RIW3)

- Construction of retaining wall RWD1 Bay 1 10 at Slope D1;
- ELS construction for RWD1 Bay 11 14 at Slope D1;
- ELS construction for footings of noise barrier VB1 SE1 at Slope D1;
- Construction of retaining wall RWD2 at Slope D2;
- Backfilling works at Slope D2;
- Stage 1 rock excavation at Slope D3;
- Soil nail installation at Slope D3; and
- Watermain works at Sau Mau Ping Road.

Pedestrian Connectivity Facility E8 (PC-E8)

- Construction of Deck at P3/P4;
- Escalator installation for E1/E2, E7/E8;
- Steel roof installation at P1/P2, P3/P4; and
- ELS construction for F8



Pedestrian Connectivity Facility E11 (PC-E11)

- Construction of ELS for PC1
- Diversion of Dia. 900mm Concrete Pipe and Construction of Manhole at PC1;
- Construction of lift tower LT2 &ST2 at PC6.

Pedestrian Connectivity Facility System A (PC-SYA)

• Backfilling to existing ground level and erection formworks for above ground structure construction.

Pedestrian Connectivity Facility System A (PC-SYB)

- Construction of RC structure at PC8 and Construction of pile cap at PC7; and
- Site coordination with Towngas and gasmain diversion works at PC2 (On Sau Roa d).

9.3 KEY ISSUES FOR THE COMING MONTH

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



10. CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

- 10.1.1 This is 44th monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to 30 November 2020.
- 10.1.2 No 24-hour or 1-hour TSP monitoring results that triggered the Action or Limit Levels were recorded. No NOEs or the associated corrective actions were therefore issued.
- 10.1.3 For construction noise, no Limit Level exceedance was recorded and no Notification of Exceedance was issued during this Reporting Period. However, one noise complaint (which triggered Action Level exceedance) was received under the project. Investigation for the complaint was undertaken by the ET (refer to \$10.1.4)
- 10.1.4 In the Reporting Period, there was one noise complaint received for Contract 3. Investigation had undertaken by ET upon receipt of the complaint. In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.
- 10.1.5 No notification of summons or successful prosecution was received under the Project.
- 10.1.6 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 1, 2 and 3 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

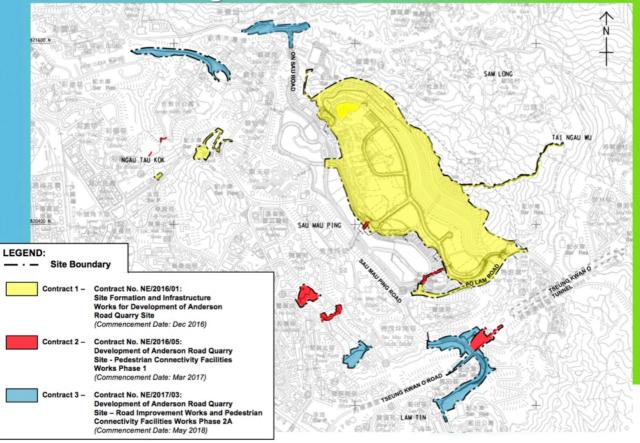
- 10.2.1 During dry season, the Contractors should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement.
- 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

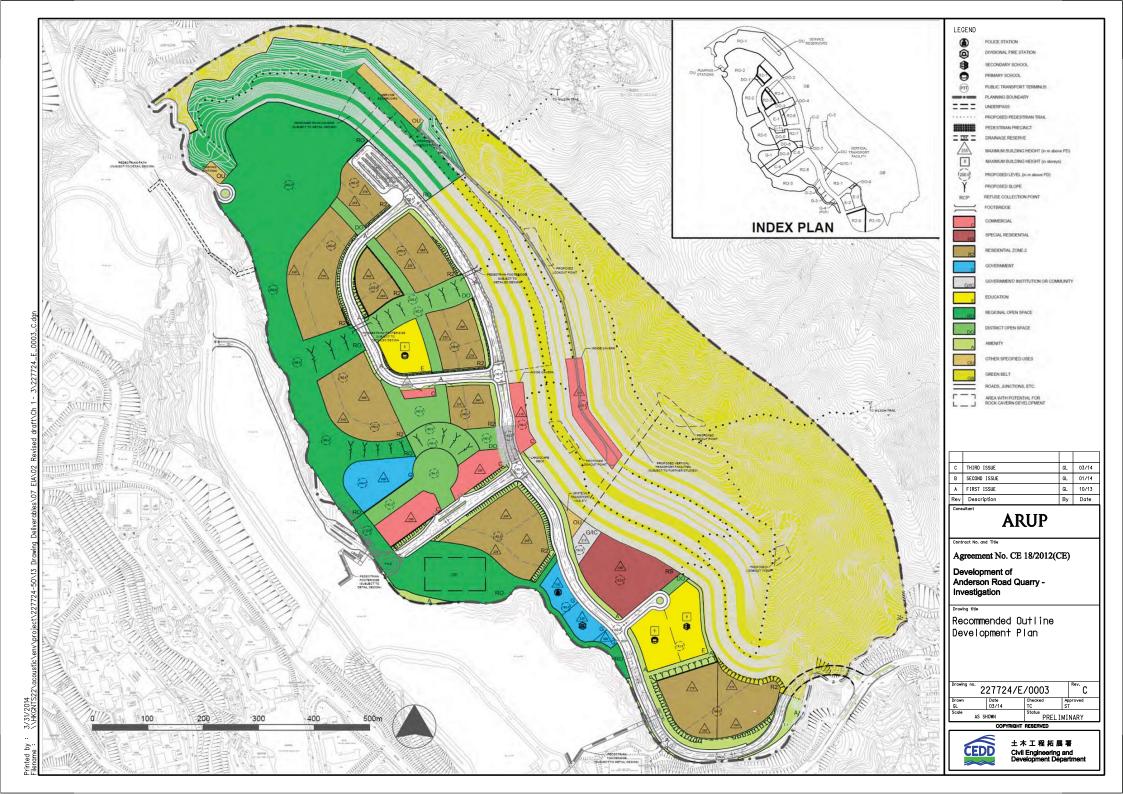
Layout plan of the Project

Contract Packages



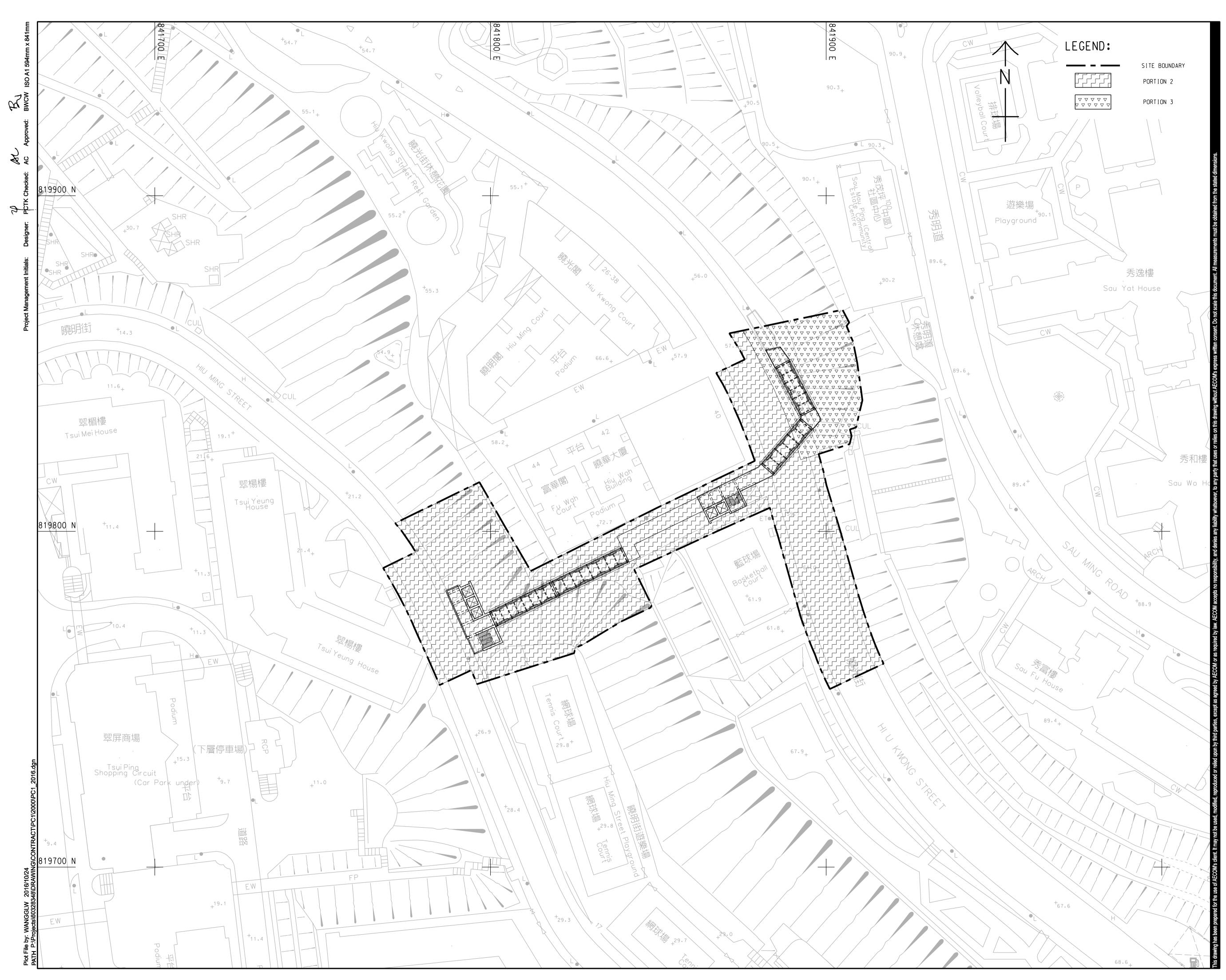


Layout plan of Contract 1 (NE/2016/01)





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



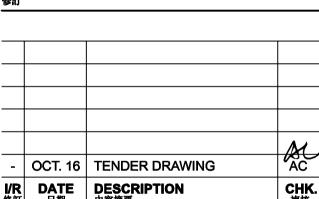
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ISSUE/REVISION 修訂



			M
-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
	ATUO		

SCALE 比例

A1 1 : 500

KEY PLAN A1 1 : 60000 索引圖

NGAU TAU KOK

			M
-	OCT. 16	TENDER DRAWING	ÂC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

60328348/PC1/2016



TSUI LAM

60328348

PROJECT NO. _{項目編}號

CONTRACT NO. ^{合約編號}

NE/2016/05

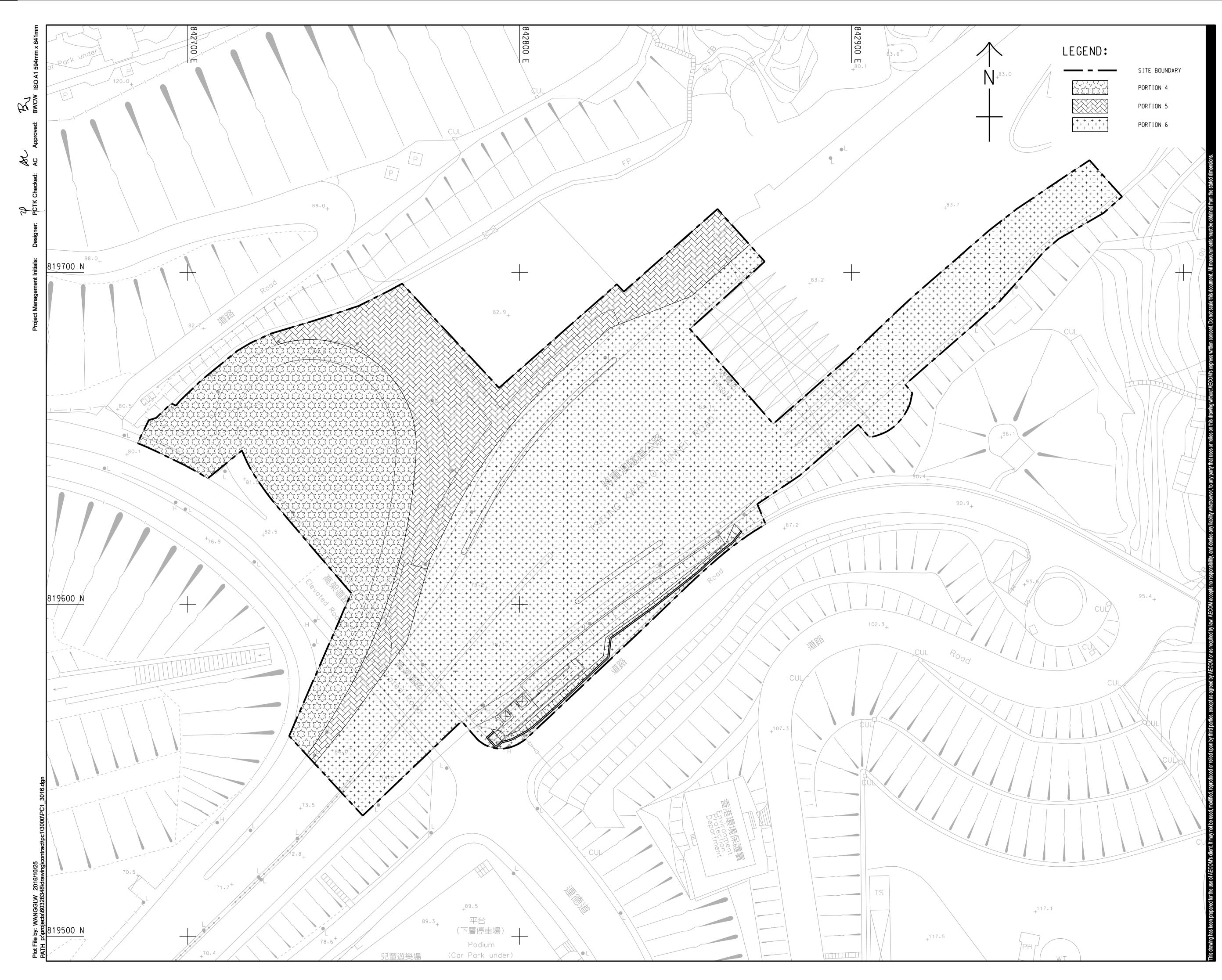
DIMENSION UNIT ^{尺寸單位}

METRES

SHEET TITLE 圖紙名稱

E2-C1-E3 - PORTION OF SITE

SHEET NUMBER 岡紙編號





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主

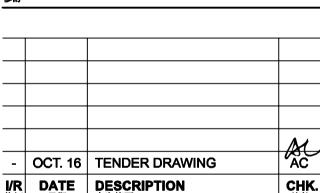


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ISSUE/REVISION 修訂



//R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK 複核
-	OCT. 16	TENDER DRAWING	AC
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A1 1 : 500

AC
CHK. 複核

STATUS 階段

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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
OT.	ATUQ		

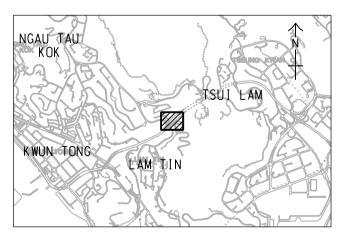
			M
-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

SCALE _{比例}

DIMENSION UNIT 尺寸單位

METRES

KEY PLAN A1 1 : 60000 索引圖



PROJECT NO. 項目編號

CONTRACT NO. ^{合約編號}

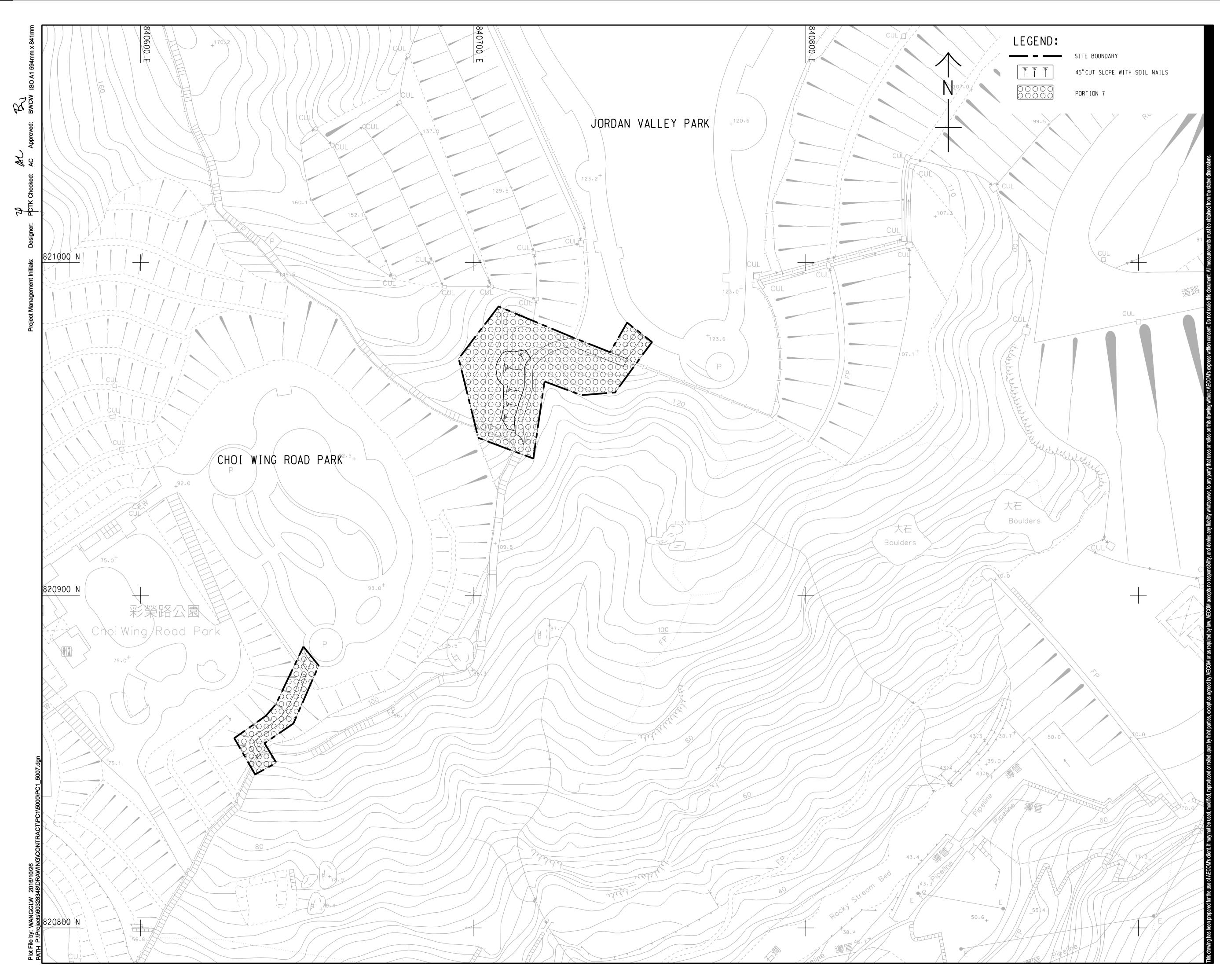
60328348

NE/2016/05 SHEET TITLE ^{圖紙名稱}

E12 AND BBI - PORTION OF SITE

SHEET NUMBER ^{國紙編號}

60328348/PC1/3016





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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ISSUE/REVISION 修訂

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-	OCT. 16	TENDER DRAWING	AC
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I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

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

54

KWUN TONG

GREEN ROUTE - PORTION OF SITE

-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

			M
-	OCT. 16	TENDER DRAWING	AC
/ R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
ет	ATUS		i

DIMENSION UNIT 尺寸單位

WAN

METRES

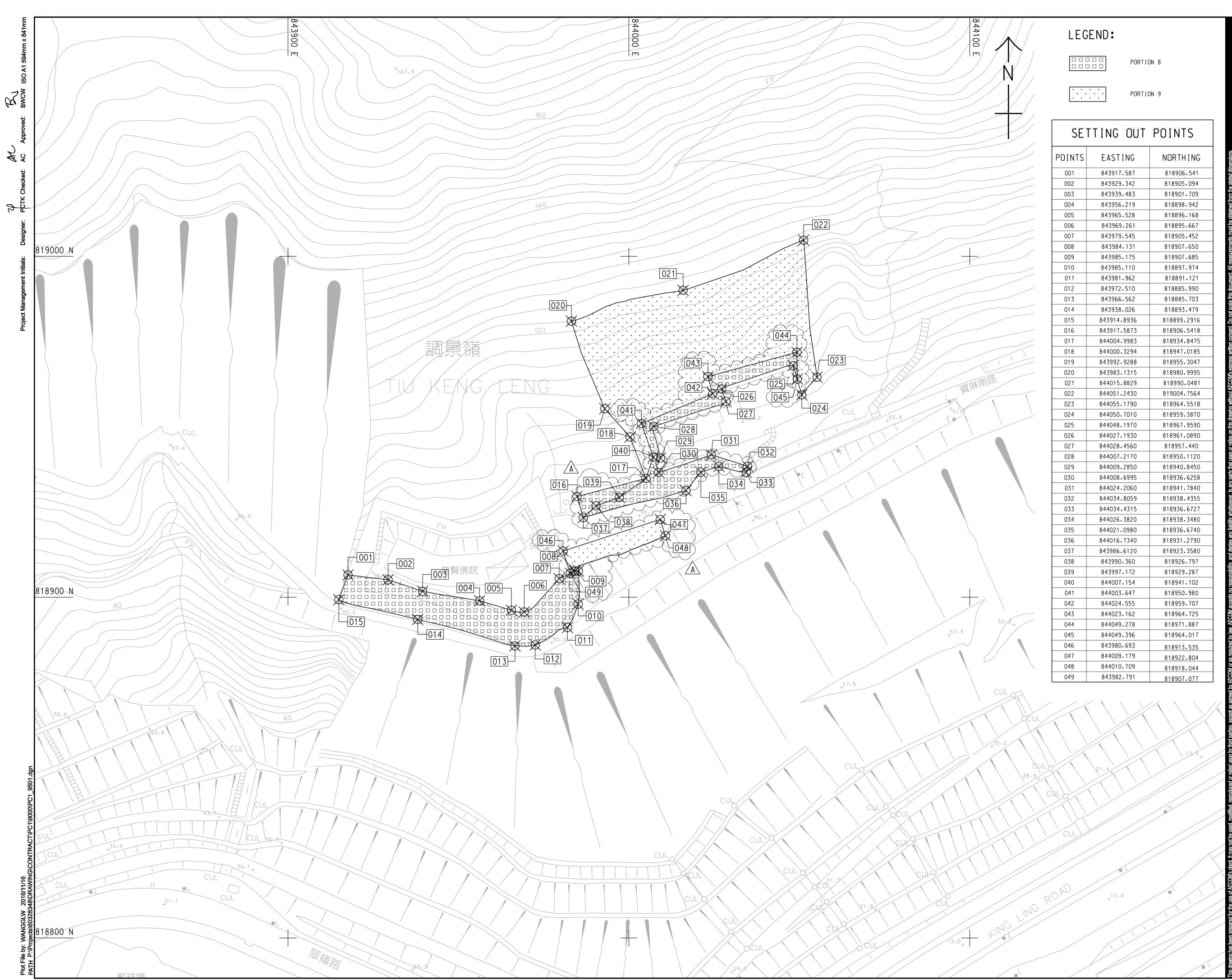
LAMTIN

CONTRACT NO. ^{合約編號}

NE/2016/05

60328348/PC1/5007

SHEET NUMBER 圖紙編號





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}



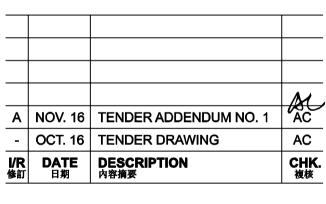
た木工程拓展署
 Civil Engineering and
 Development Department

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STATUS 階段

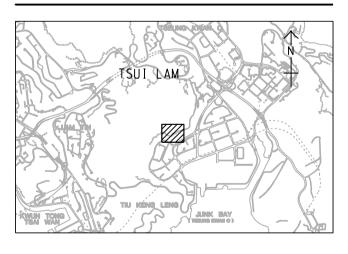
DIMENSION UNIT ^{尺寸單位}

A1 1 : 500

SCALE 比例

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

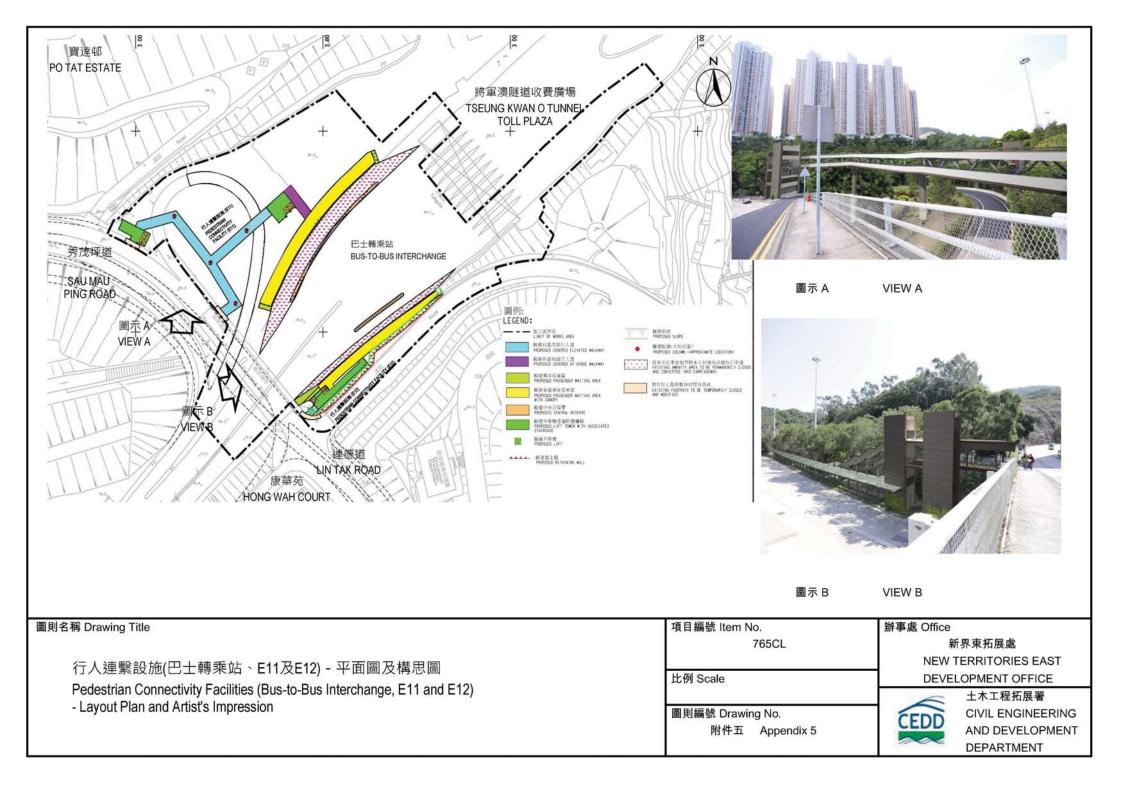
INFRASTRUCTURAL WORKS AT PO LAM ROAD SOUTH TIU KENG LENG – PORTION OF SITE

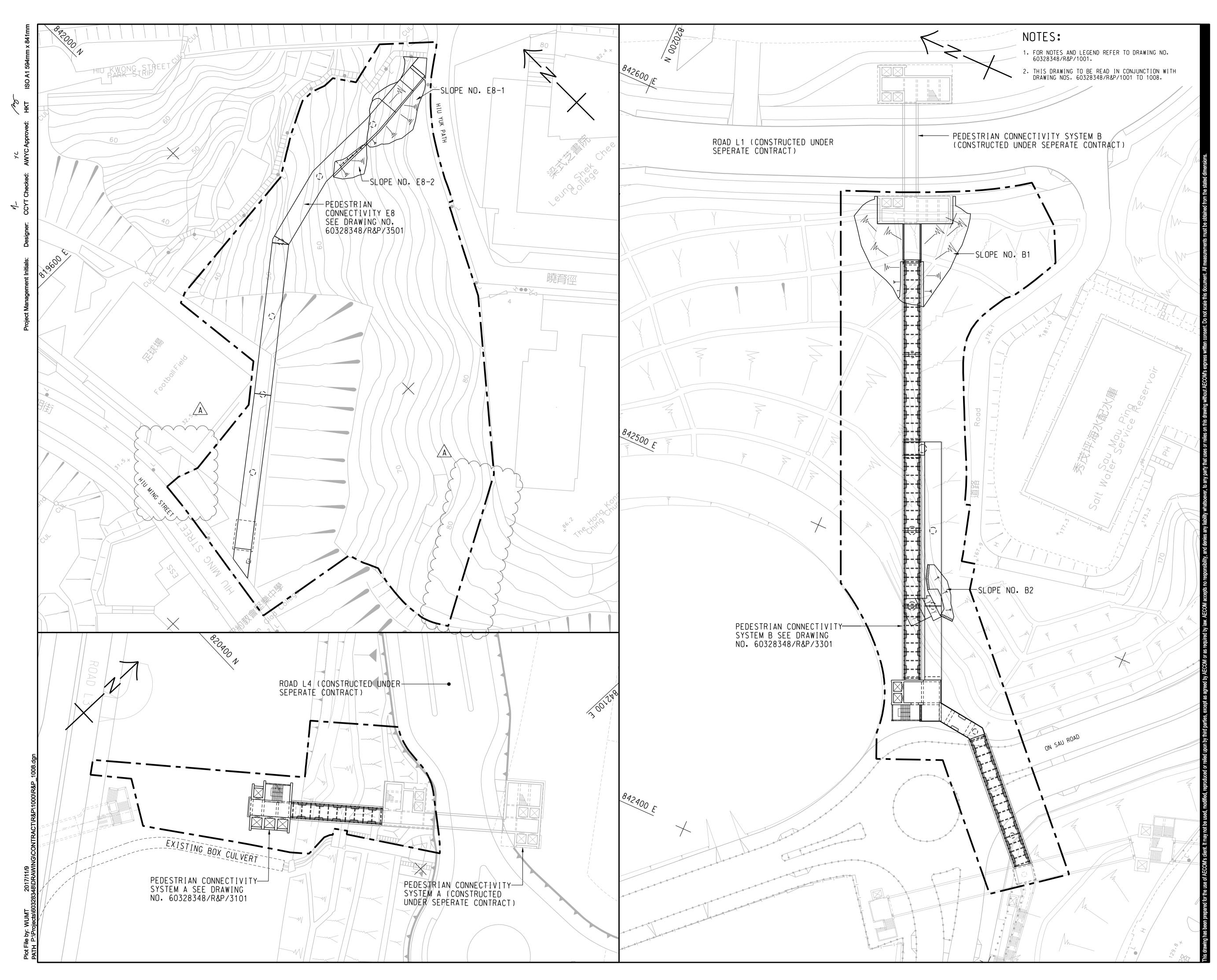
SHEET NUMBER 圖紙編號

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}



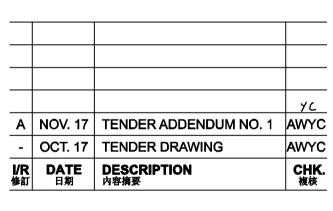
全林工程拓展署 Civil Engineering and Development Department

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STATUS ^{階段}

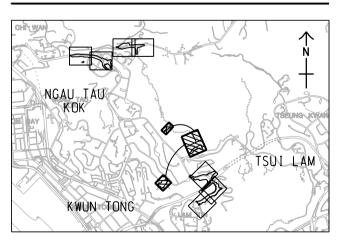
SCALE 比例

A1 1 : 500

DIMENSION UNIT _{尺寸單位}

METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

60328348

NE/2017/03

SHEET TITLE 圖紙名稱

GENERAL LAYOUT

SHEET NUMBER 圖紙編號

60328348/R&P/1008A

CONTRACT NO. ^{合約編}號

SHEET 8 OF 8

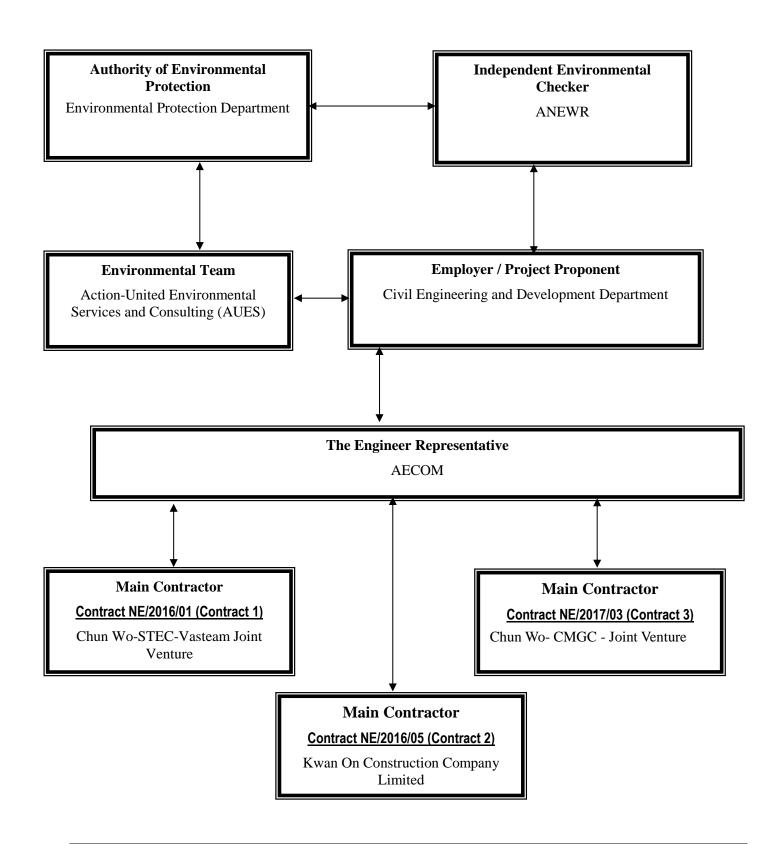


Appendix B

Project Organization Structure



Project Organization Structure





Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Leung Siu Kau, Kelvin	2301 1383	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Li, Ling Tommy	9389 8792	2473 3221
ANEWR	Independent Environmental Checker	Adi Lee	2618 2836	3007 8648
CSVJV	Project Manager	William Leung	2638 7181	2744 6937
CSVJV	Site Agent	TY Leung	2638 7181	2744 6937
CSVJV	Project Environmental Manager	Shelton Chan	2638 7181	2744 6937
CSVJV	Environmental Officer	Ken Chu	2638 7181	2744 6937
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 1 – NE/2016/01

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

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Leung Siu Kau, Kelvin	2301 1383	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Vincent Yuen	5599 1466	2473 3221
ANEWR	Independent Environmental Checker	Adi Lee	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	Leung Ka Kui	6671 0383	2558 6900
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

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Leung Siu Kau, Kelvin	2301 1383	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Brad Chan	5506 0068	2473 3221
ANEWR	Independent Environmental Checker	Adi Lee	2618 2836	3007 8648
CW – CMGC - JV	Construction Manager	William Leung	9464 1392	3965 9900
CW – CMGC - JV	Site Agent	Chris Lam	9801 9974	3965 9900
CW – CMGC - JV	Environmental Officer	King Lam	9570 6187	3965 9900
CW – CMGC - JV	Environmental Supervisor	Belle Mak	6094 1580	3965 9900
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 3 -NE/2017/03

Legend:

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

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



Appendix C

Construction Programme

- (a) Contract 1 (NE/2016/01)
- (b) Contract 2 (NE/2016/05)
- (c) Contract 3 (NE/2017/03)



Contract 1 (NE/2016/01)

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2020\November 2020\R0425v2.docx

俊和-上隧-浩隆聯營

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

	俊和-上隧-浩隆聯營 Chun Wo - STEC - VASTEAN JOINT VENTURE					3- N	AONTH	ROLLING PROGRAMME	
tivity ID:	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish	Qtr 4, 2020 Oct Nov	Dec
Anderson Rd	Sub-programme (Nov 2020) _ccn _201112	Duration	Start	1 111511	Duration				Dec
Fresh Water Pu									
Stage 5 - ABWF	, Finishing & E&M								
FWP-1300	Pumping Station ABWF	154	31-Dec-19	10-Jul-20	280	31-Dec-19 A	08-Dec-20		Pumping Station ABWF
FWP-1310	Pumping Station finishing	120	25-Feb-20	22-Jul-20	256	25-Feb-20 A	04-Jan-21		
FWP-1320	Pumping Station E&M works	207	16-Jun-20	24-Feb-21	223	29-Jun-20 A	26-Mar-21		
Salt Water Rese			TO GUIT ED	ElliopEl	220	20 0011 2011	20 mar 21		
ABWF, Finishir			10 5 1 00	00.14 00	000		04.11 00		_
SWR-1410	Saltwater Reservior ABWF & Finishing	81	18-Feb-20	28-May-20	228	18-Feb-20 A	21-Nov-20		Saltwater Reservior ABWF & Finishing
SWR-1420	Saltwater Reservior E&M works	200	29-May-20	26-Jan-21	244	29-May-20 A	22-Mar-21		
Fresh Water Res	ervoir								
ABWF, Finishir	g & E&M								
FWR-1990	Freshwater Reservior ABWF & Finishing	114	03-Mar-20	22-Jul-20	230	03-Mar-20 A	08-Dec-20		Freshwater Reservior ABWF & Finit
FWR-2000	Freshwater Reservior E&M works	240	23-Jul-20	13-May-21	254	12-Oct-20 A	19-Aug-21		
RWS Access Ro	ad & External Works		·						
FWP-1400	Formation & Slope RWA13 works	154	16-Apr-20	19-Oct-20	198	16-May-20 A	11-Jan-21		
FWP-1410	Watermain (DN600 & DN450) & Irrigation System along WSA access road	172	16-Apr-20	10-Nov-20	206	16-May-20 A	20-Jan-21		
FWP-1420	Drainage (sewerage & surface) along WSA access road	109	03-Jul-20	10-Nov-20	139	30-Jul-20 A	14-Jan-21		
FWP-1430	CLP power supply duct	95	20-Jul-20	10-Nov-20	109	16-Sep-20 A	27-Jan-21		
FWP-1440	Road Works & Fencing	120	11-Nov-20	09-Apr-21	120	28-Jan-21	26-Jun-21		
FWP-1450	Grteen Roof & Paving Area	100	20-Oct-20	20-Feb-21	100	12-Jan-21	15-May-21		
	nection System A& B								
PC system B									
PCB-1090	System B - Backfill south tower	72	16-Feb-20	16-May-20	224	16-Feb-20 A	16-Nov-20		
									tem B - Backfill south tower
PCB-1100	System B - Backfill north tower	72	16-Feb-20	16-May-20	224	16-Feb-20 A	16-Nov-20	Sys	tem B - Backfill north tower
PCB-1110	System B - ABWF	81	16-Apr-20	23-Jul-20	191	16-Apr-20 A	02-Dec-20		System B - ABWF
PCB-1120	System B - E&M	22	05-Jun-20	02-Jul-20	149	05-Jun-20 A	01-Dec-20		System B - E&M
PCB-1130	System B - E&M T&C	24	03-Jul-20	30-Jul-20	24	02-Dec-20	31-Dec-20		
PCB-1140	System B - Lift installation	75	03-Jul-20	28-Sep-20	75	02-Dec-20	05-Mar-21		
PC system A									
PCA-1020	B5 - Construction of Pile Caps	40	08-Sep-20	27-Oct-20	31	09-Oct-20 A	14-Nov-20 A		
PCA-1030	B5 - Construction of Sub-Structure of Lift Tower (+166 to +175mPD)	60	28-Oct-20	08-Jan-21	60	16-Nov-20	27-Jan-21		
PCA-1040	B5 - Construction of Super Structure of Lift Tower (+175mPD to Roof Level)	60	09-Jan-21	23-Mar-21	60	28-Jan-21	14-Apr-21	-	
PCA-1120	C1a - Construction of Pile Caps	35	29-Jul-20	07-Sep-20	49	23-Sep-20 A	21-Nov-20		C1a - Construction of Pile Caps
PCA-1130	C1a - Construction of Sub-Structure of Lift Tower (+166 to +175mPD)	60	08-Sep-20	19-Nov-20	60	04-Nov-20 A	15-Jan-21 A		
PCA-1140	C1a - Construction of Subway	90	20-Nov-20	11-Mar-21	90	23-Nov-20	13-Mar-21		
Artificial Flood A	utenuation Lake								
	Part 11 Bay 47-49)								
ART-1480	Art retain wall - Part 11 bay 46	12	21-May-20	03-Jun-20	138	08-Jun-20 A	20-Nov-20		Art retain wall - Part 11 bay 46
ART-1480	Art retain wall - Part 11 bay 40 Art retain wall - Part 11 bay 47	12		03-Jun-20	138	08-Jun-20 A	20-Nov-20		
			21-May-20						Alticialit wall - Fail Th Day +/
ART-1500	Art retain wall - Part 11 bay 48	12	28-May-20	10-Jun-20	138	15-Jun-20 A	27-Nov-20		Art retain wall - Part 11 bay 48
ART-1510	Art retain wall - Part 11 bay 49	12	21-May-20	03-Jun-20	138	08-Jun-20 A	20-Nov-20		Art retain wall - Part 11 bay 49
	Part 12 Bay 50-52)								
ART-1520	Art retain wall - Part 12 backfill by course material, excavation, 300mm rock fill	14	11-Jun-20	27-Jun-20	136	30-Jun-20 A	09-Dec-20		Art retain wall - Part 12 backfill by
ART-1530	Art retain wall - Part 12 bay 50	12	29-Jun-20	13-Jul-20	12	10-Dec-20	23-Dec-20		Artı
		1	1	·		1	1		
	anned Bar (WP) 💠 🔷 Planned Milestone (WP)					3-mont	h Roll	ing Programme	Date 15-Nov-20 C1-MPU202011
	tual Bar			Anderso	on Rd Sub-i	orogramme			
Fo	recast Bar			15-Nov-		-			
				•					·

			ge 1 of 4 Qtr 1, 2021		
		Jan	QU 1,2021		Feb
		Pumping Station finishing			
ning					
			lope RWA13 wo		k DN450) & Irrigation System
					ong WSA access road
				CLP p	ower supply duct
		System B - E&M T&C			
				B5 - C	onstruction of Sub-Structure of
	_				
cour	se m	aterial, excavation, 300mm rock fill			
		Part 12 bay 50			
Rev	isio	1	Check	ed	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					3 -N	NUNTH	ROLLING PROGRAMME		
ivity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish		, 2020 ov	Dec
ART-1540	Art retain wall - Part 12 bay 51	12	07-Jul-20	20-Jul-20	12	17-Dec-20	02-Jan-21		~	
ART-1550	Art retain wall - Part 12 bay 52	12	29-Jun-20	13-Jul-20	12	10-Dec-20	23-Dec-20			Art reta
Backfill at back	of retaining wall									
ART-1940	Art retain wall - Bay 47-52	30	12-May-20	15-Jun-20	158	16-May-20 A	21-Nov-20		, —	Art retain wall - Bay 47-52
Construction of	lake bottom									
ART-1960	Art Lake - Construction north part	36	16-Apr-20	29-May-20	182	16-Apr-20 A	21-Nov-20		, —	Art Lake - Construction north part
ART-1970	Art Lake - Excavation south part	43	10-Mar-20	05-May-20	210	10-Mar-20 A	21-Nov-20		, ,	Art Lake - Excavation south part
ART-1980	Art Lake - Construction south part	36	06-May-20	16-Jun-20	158	23-May-20 A	28-Nov-20			Art Lake - Construction south part
ART-1990	Art Lake - water testing for bottom of lake	45	17-Jun-20	10-Aug-20	45	30-Nov-20	23-Jan-21	_		
Construction of	Floating Bridge									
ART-2060	Art Lake Floating Brdige - footing construction	30	23-May-20	27-Jun-20	114	30-Jul-20 A	12-Dec-20			Art Lake Floating Brdige - for
ART-2070	Art Lake Floating Brdige - installation bridge	30	29-Jun-20	03-Aug-20	30	14-Dec-20	20-Jan-21	_		
Slot Chamber	Art Lance Fridaing Brage - Installation Brage		20-0011-20	007 kug 20	00	14 000 20	20-0411-21			
ART-2080	Art Lake - Slot chamber no. 1 & stop log chamber	18	06-May-20	26-May-20	158	16-May-20 A	21-Nov-20			
								_		Art Lake - Slot dhamber no. 1 & stop log chamber
ART-2090	Art Lake - Slot chamber no. 2 & stop log chamber	26	16-Jun-20	17-Jul-20	26	23-Nov-20	22-Dec-20			Art Lake
ART-2100	Art Lake - Slot chamber no. 3	33	16-Jun-20	25-Jul-20	33	23-Nov-20	02-Jan-21			
Drainage										
ART-2110	Art Lake - Outside bay 38-45	68	02-Mar-20	26-May-20	223	02-Mar-20 A	28-Nov-20			Art Lake - Outside bay 38-45
ART-2120	Art Lake - Outside bay 3-8	28	28-Apr-20	01-Jun-20	170	16-May-20 A	05-Dec-20		[Art Lake - Outside bay 3-8
ART-2130	Art Lake - Outside bay 9-28	51	07-Apr-20	10-Jun-20	193	07-Apr-20 A	28-Nov-20		[Art Lake - Outside bay 9-28
ART-2140	Art Lake - Outside bay 50-52	14	16-Jun-20	03-Jul-20	14	23-Nov-20	08-Dec-20			Art Lake - Outside bay 50-52
Treatment Plant										
ART-1620	Treatment plant - Construct the wall(W1,2,3,6,7,8,9,11,12,13,14)	14	13-May-20	28-May-20	140	11-Jun-20 A	26-Nov-20			Treatment plant - Construct the wall(W1,2,3,6,7,8,9,11,12,13
ART-1630	Treatment plant - Backfilling (by course material) to 197.1mPD, 8.2m Depth	30	29-May-20	04-Jul-20	30	27-Nov-20	04-Jan-21			
Bioretention Sy	stem									
ART-2150	Art Lake - Part 1,2,4	72	11-Jun-20	04-Sep-20	170	13-Jun-20 A	06-Jan-21			
ART-2160	Art Lake - Part 3	32	02-Jun-20	10-Jul-20	132	06-Aug-20 A	13-Jan-21			
ART-2170	Art Lake - Part 6,7,12	16	04-Jul-20	22-Jul-20	114	08-Aug-20 A	22-Dec-20			Art Lake
Underpass Tunn	el de la companya de									
Box Culvert BC	3									
TUN-3360	BC3 - CH2506 to CH2484 (22m)	70	18-May-20	08-Aug-20	117	11-Jun-20 A	30-Oct-20 A			
VE Panels, Roa	nd Works, E&M									
TUN-3510	Install VE Panels (Frame & Panels)	90	10-Aug-20	25-Nov-20	90	31-Oct-20 A	19-Feb-21			
TUN-3520	Tunnel - E&M 1st Fix (Bracket, Tracking & Cabling)	45	10-Aug-20	30-Sep-20	45	31-Oct-20 A	22-Dec-20	_		Tunnel
TUN-3530	Sub-base for Underpass road L1	75	10-Aug-20	07-Nov-20	75	31-Oct-20 A	29-Jan-21	_		
TUN-3540	Tunnel - FS main, Socket & AFA equipment	60	10-Aug-20	20-Oct-20	60	31-Oct-20 A	12-Jan-21	_		
TUN-3550	Underpass L1 paving, funiture, marking, signage from East Portal	75	14-Sep-20	12-Dec-20	75	05-Dec-20	09-Mar-21			
TUN-3560	Tunnel - E&M 2nd Fix (Lighting & Equipment)	45		13-Nov-20	45	11-Dec-20	03-Mai-21	_		
			19-Sep-20							
TUN-3570	Underpass ABWF works	89	30-Sep-20	18-Jan-21	89	22-Dec-20	14-Apr-21			
TUN-3580	Tunnel - E&M Final Fix (Equipment connection & testing)	35	03-Nov-20	12-Dec-20	35	25-Jan-21	09-Mar-21			
Road L4 (RWA18	3, Noise Barrier, RWA12, Utilities & Road Works)									
Retaining Wall										
L4-3440	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +165	153	15-Oct-19	21-Apr-20	301	15-Oct-19 A	17-Oct-20 A			
L4-3450	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +170 (after system A sub-way)	85	05-Oct-20	15-Jan-21	85	19-Oct-20 A	29-Jan-21			
L4-3460	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +175	85	16-Jan-21	03-May-21	85	30-Jan-21	17-May-21			
					1		1			Date F
	anned Bar (WP) Planned Milestone (WP)					3-mont	th Roll	ing Programme		Date R 15-Nov-20 C1-MPU202011
	tual Bar			Anders	on Rd Sub-					
	recast Bar			15-Nov	-20					

		Pa	ge 2 of 4	
	_	Jan	Qtr 1, 2021	Feb
		Art retain wall - Part 12 bay 51		
tain	wall -	Part 12 bay 52		
			Art Lake - wate	r testing for bottom of lake
otinę	g con	struction	Art Lake Floating Bro	
			Art Lake Floating Bro	lige - installation bridge
e - S	lot ch	amber no. 2 & stop log chamber		
		Art Lake - Slot chamber no. 3		
,14))			
		Treatment plant - Backfilling (by course material) to 19	7.1mPD, 8.2m Depth
		Art Lake - Part 1,2,4		
		Art Lake -	Part 3	
e - P	Part 6,	7,12		
- E&	M 1s	t Fix (Bracket, Tracking & Cabling)		
			S	b-base for Underpass road L
		Tunnel - FS I	main, Socket & AFA equ	pment
				Tunnel - E&M 2nd I
			L4	(RWA12) - Bay 17-20 constr
lev	isio	n	Checked	Approved



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

	IX イー 二、「之 つ F生 4开 呂 Chun Wo - STEC - Vasteam Joint Venture					3-N	AONTH	ROLLING PROGRAMME			
Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish		4, 2020 Nov		Dec
L4-3530	L4 (RWA12) - Bay 22 construct wall & backfill upto +170 (after twin 1950 pipe)	85	29-Dec-20	14-Apr-21	85	13-Jan-21	28-Apr-21				
L4-3630	L4 (RWA12) - Bay 21 construct wall & backfill upto +170 (after system A sub-way)	85	21-Nov-20	06-Mar-21	85	05-Dec-20	20-Mar-21				
L4-3670	L4 (RWA12) - Bay 9-16 construct wall & backfill	220	05-Aug-19	04-May-20	364	05-Aug-19 A	23-Oct-20 A				
L4-3690	L4 (RWA12) - Bay 23-29 excavate in soil & rock	36	12-Mar-20	27-Apr-20	183	12-Mar-20 A	22-Oct-20 A				
L4-3700	L4 (RWA12) - Bay 23-29 construct wall & backfill	103	02-Apr-20	08-Aug-20	184	02-Apr-20 A	16-Nov-20		l L4 (RWA12) - Bay 23	-29 cohstruct wall &	backfill
Road Works - D	rainage										
L4-4250	L4 (Drainage) - Excavate & lay drain CH150 to CH200	80	18-May-20	20-Aug-20	163	18-May-20 A	28-Nov-20			L4 (Drainage) -	Excavate & lay drain CH150 to CH200
L4-4260	L4 (Drainage) - Backfill for water main CH0 to CH200	30	21-Aug-20	24-Sep-20	30	30-Nov-20	06-Jan-21			-	
L4-4270	L4 (Drainage) - Excavate & lay drain CH200 to CH250	80	29-May-20	01-Sep-20	153	29-May-20 A	28-Nov-20			L4 (Drainage) -	Excavate & lay drain CH200 to CH250
L4-4280	L4 (Drainage) - Excavate & lay drain CH250 to CH300	80	02-Sep-20	07-Dec-20	80	30-Nov-20	09-Mar-21				3
L4-4290	L4 (Drainage) - Excavate & lay drain CH300 to CH350	80	29-May-20	01-Sep-20	153	29-May-20 A	28-Nov-20			L4 (Drainage) -	Excavate & lay drain CH300 to CH350
L4-4300	L4 (Drainage) - Excavate & lay drain CH350 to CH400	80	02-Sep-20	07-Dec-20	80	30-Nov-20	09-Mar-21				3
Retaining Wall R	WA9 at Road L3										
RWA9 Bay 13 to	9 Bay 16										
RWA9-1180	RWA9 - Excav & formation work for Bay 16, 15, 14,13	45	15-Jun-20	07-Aug-20	110	19-Jun-20 A	30-Oct-20 A				
RWA9-1190	RWA9 - Break bore pile head for Bay 16 & lay blinding layer	30	08-Aug-20	11-Sep-20	31	31-Oct-20 A	05-Dec-20			F	WA9 - Break bore pile head for Bay 16 & lay b
RWA9-1200	RWA9 - F/W & rebat fixing to Bay 16 Base Slab	21	12-Sep-20	08-Oct-20	21	07-Dec-20	02-Jan-21			1	
RWA9-1210	RWA9 - Concrete laying for Bay 16 Base Slab	1	09-Oct-20	09-Oct-20	1	04-Jan-21	04-Jan-21				
RWA9-1220	RWA9 - F/W & rebat fixing to Bay 13, 14 & 15 Base Slab	14	10-Oct-20	27-Oct-20	14	05-Jan-21	20-Jan-21				
RWA9-1230	RWA9 - Concrete laying for Bay 13, 14 & 15 Base Slab	3	28-Oct-20	30-Oct-20	3	21-Jan-21	23-Jan-21				
RWA9-1240	RWA9 - F/W & rebat fixing to Bay 16 wall	21	31-Oct-20	24-Nov-20	21	25-Jan-21	20-Feb-21				
RWA9 Bay 17 to	Bay 20										
RWA9-1280	RWA9 - Excav & formation work for Bay 17 to 20 & lay blinding layer	21	23-Jun-20	18-Jul-20	110	19-Jun-20 A	30-Oct-20 A				
RWA9-1290	RWA9 - F/W & rebat fixing to Bay 17 & 19 Base Slab	10	20-Jul-20	30-Jul-20	25	31-Oct-20 A	28-Nov-20			RWA9 - F/W &	rebat fixing to Bay 17 & 19 Base Slab
RWA9-1300	RWA9 - Concrete laying for Bay 17 & 19 Base Slab	3	31-Jul-20	03-Aug-20	3	30-Nov-20	02-Dec-20				- Concrete laying for Bay 17 & 19 Base Slab
RWA9-1310	RWA9 - F/W & rebat fixing to Bay 18 & 20 Base Slab	10	04-Aug-20	14-Aug-20	10	03-Dec-20	14-Dec-20				RWA9 - F/W & rebat fixing to
RWA9-1320	RWA9 - Concrete laying for Bay 18 & 20 Base Slab	3	15-Aug-20	18-Aug-20	3	15-Dec-20	17-Dec-20				RWA9 - Concrete laying
RWA9-1330	RWA9 - F/W & rebat fixing to Bay 17 & 19 Wall	10	19-Aug-20	29-Aug-20	10	18-Dec-20	31-Dec-20				
RWA9-1340	RWA9 - Concrete laying for Bay 17 & 19 Wall	3	31-Aug-20	02-Sep-20	3	02-Jan-21	05-Jan-21				
RWA9-1350	RWA9 - F/W & rebat fixing to Bay 18 & 20 Wall	14	03-Sep-20	18-Sep-20	14	06-Jan-21	21-Jan-21				
RWA9-1360	RWA9 - Concrete laying for Bay 18 & 20 Wall	3	19-Sep-20	22-Sep-20	3	22-Jan-21	25-Jan-21				
RWA9 Bay 21 &			•								
RWA9-1370	RWA9 - Excav & formation work for Bay 20 to 21 & lay blinding layer	21	19-Aug-20	11-Sep-20	21	18-Dec-20	14-Jan-21				
RWA9-1380	RWA9 - F/W & rebat fixing to Bay 21 & 22 Base Slab	21	12-Sep-20	08-Oct-20	21	15-Jan-21	08-Feb-21				
RWA9-1390	RWA9 - Concrete laying for Bay 21 & 22 Base Slab	3	09-Oct-20	12-Oct-20	3	09-Feb-21	11-Feb-21				
	L1 east (between Junction L3 & L5)										
Road L5											
RL5-1040	Road L5 - ducting for Street Lighting	111	02-Dec-19	20-Apr-20	284	02-Dec-19 A	16-Nov-20		Road L5 - ducting fo	r Street Liahting	
RL5-1050	Road L5 - Road Pavement	119	04-Dec-19	04-May-20	287	04-Dec-19 A	21-Nov-20			Road Pavement	
RL5-1060	Road L5 - Landscape funiture	37	18-Apr-20	02-Jun-20	158	16-May-20 A	21-Nov-20			Landscape funiture	•
	art 1 (L5 toward L3 Junction)					, 2011			Noau LU		
RL1a-1030	Road L1 east 1 - UU installation	117	28-Nov-19	23-Apr-20	289	28-Nov-19 A	18-Nov-20		Road L1 east 1		
RL1a-1030	Road L1 east 1 - ducting for Street Lighting	68	10-Feb-20	05-May-20	235	10-Feb-20 A	21-Nov-20			- 00 Installation	Street Lighting
RL1a-1040	Road L1 east 1 - Road Pavement	116	09-Dec-19	05-May-20	233	09-Dec-19 A	21-Nov-20			east 1 - ducting for s	
RL1a-1060	Road L1 east 1 - Landscape funiture	45	06-May-20	27-Jun-20	169	25-May-20 A	12-Dec-20		Road L1	Sast I + Road Paven	Road L1 east 1 - Landscape funit
12-10-1000		57	50-ivia y-20	21-Jui 1-20	108	20-1viay-20 A	12-060-20				road Li easi i - Landscape funit
Pla	anned Bar (WP) 🔷 🔷 Planned Milestone (WP)					2 mont	h Palli	na Drogramma		Date	Revis
	tual Bar \blacklozenge \blacklozenge Milestone			Andors				ng Programme	15	-Nov-20	C1-MPU202011
For	recast Bar			15-Nov	on Rd Sub-p -20	Jogramme					
				1 .0.100							

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	Pa	nge 3 of 4	
	Jan	Qtr 1, 2021	Feb
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50	L4 (Drainage) - Backfill fi	or water main CH0 to CH2	00
50			
16 & lay blir			
	RWA9 - F/W & rebat fixing to Ba		
			fixing to Bay 13, 14 & 15 Ba
		RWA9 - Concre	te laying for Bay 13, 14 & 15
ab			
ase Slab			
	ay 18 & 20 Base Slab or Bay 18 & 20 Base Slab		
	RWA9 - F/W & rebat fixing to Bay 17	7 & 19 Wall	
	RWA9 - Concrete laying fo		
			at fixing to Bay 18 & 20 Wall ncrete laying for Bay 18 & 20
	RWA9 -	Excav & formation work for	or Bay 20 to 21 & lay blinding RWA9 - F/
			RWA
scape funitu	e		
Revisi	on	Checked	Approved
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CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

	Ky イロー エー Kを ー ショ P生 4开 名 Chun Wo - STEC - Vasteam Joint Venture		3-MONTH ROLLING PROGRAMME										
tivity ID	Activity Name	BL Project	BL Project	BL Project	At Completion	Start	Finish	Qtr 4, 2020					
		Duration	Start	Finish	Duration			Oct Nov Dec					
Road L1 east p	part 2 (L5 toward PC system B)												
RL1b-1040	Road L1 east 2 - ducting for Street Lighting	99	19-Dec-19	23-Apr-20	271	19-Dec-19 A	18-Nov-20	Road L1 east 2 - ducting for Street Lighting					
RL1b-1050	Road L1 east 2 - Road Pavement	28	17-Apr-20	21-May-20	187	17-Apr-20 A	28-Nov-20	Road L1 east 2 - Road Pavement					
RL1b-1060	Road L1 east 2 - Landscape funiture	45	22-May-20	15-Jul-20	164	13-Jun-20 A	29-Dec-20						
Road L1 east p	part 3 (Junction L3 toward L5)												
RL1c-1020	Road L1 east 3 - Watermain installation	62	11-Feb-20	27-Apr-20	234	11-Feb-20 A	21-Nov-20	Road L1 east 3 Watermain installation					
RL1c-1023	Road L1 east 3 - Fibe optic installation	60	16-Apr-20	27-Jun-20	194	16-Apr-20 A	05-Dec-20	Road L1 east 3 - Fibe c	optic installation				
RL1c-1030	Road L1 east 3 - UU installation	96	06-Jan-20	06-May-20	262	06-Jan-20 A	21-Nov-20	Road L1 east 3 UU installation					
RL1c-1040	Road L1 east 3 - ducting for Street Lighting	35	16-Apr-20	28-May-20	192	16-Apr-20 A	03-Dec-20	Road L1 east 3 - ducting fo	or Street Lighting				
RL1c-1050	Road L1 east 3 - Road Pavement	30	16-Apr-20	22-May-20	188	16-Apr-20 A	28-Nov-20	Road L1 east 3 - Road Pavement					
RL1c-1060	Road L1 east 2 - Landscape funiture	35	23-May-20	04-Jul-20	173	13-Jun-20 A	09-Jan-21	-					
Road Works PT	T, L1 west (between Junction L3 & PTT)												
Road L1 west	part 1 (Box culvert BC1)												
RL1c-1070	Road L1 west 1 - Drain Works (except gully near slope)	170	11-Nov-19	09-Jun-20	313	11-Nov-19 A	28-Nov-20	Road L1 west 1 - Drain Works (excep	pt gully near slope)				
RL1c-1090	Road L1 west 1 - Watermain installation	45	28-May-20	21-Jul-20	161	28-May-20 A	07-Dec-20	Road L1 west 1 - V	Watermain installation				
RL1c-1100	Road L1 west 1 - Fibe optic installation	60	28-May-20	07-Aug-20	173	28-May-20 A	21-Dec-20		Road L1 we				
RL1c-1110	Road L1 west 1 - UU installation	45	20-Jun-20	13-Aug-20	45	17-Nov-20	11-Jan-21						
RL1c-1120	Road L1 west 1 - ducting for Street Lighting	40	02-Jul-20	17-Aug-20	40	26-Nov-20	14-Jan-21						
RL1c-1130	Road L1 west 1 - Road Pavement	40	02-Jul-20	17-Aug-20	40	26-Nov-20	14-Jan-21						
IL IO IIO		40	02 001 20	11-1 tug-20	40	201401-20	14 001121						

Planned Bar (WP)	◇	Planned Milestone (WP)
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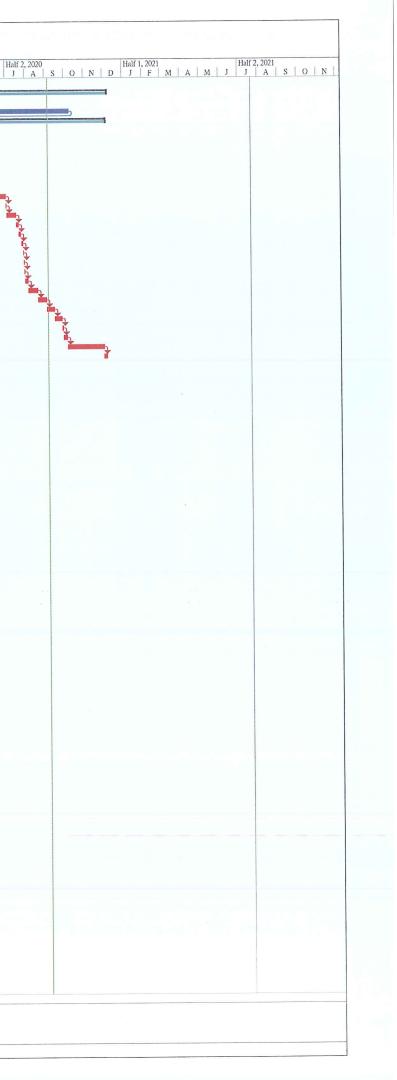
15-Nov-20

		Pa	ge 4 of 4 Qtr 1, 2021	
		Jan		Feb
	R	ad L1 east 2 - Landscape funiture		
		Road L1 east 2 - L	andscape funiture	
on west	1-F	ibe optic installation		
			1 - UU installation	
		Road L1	west 1 - ducting for Strelet	Lighting
		Road L1	west 1 - Road Pavement	
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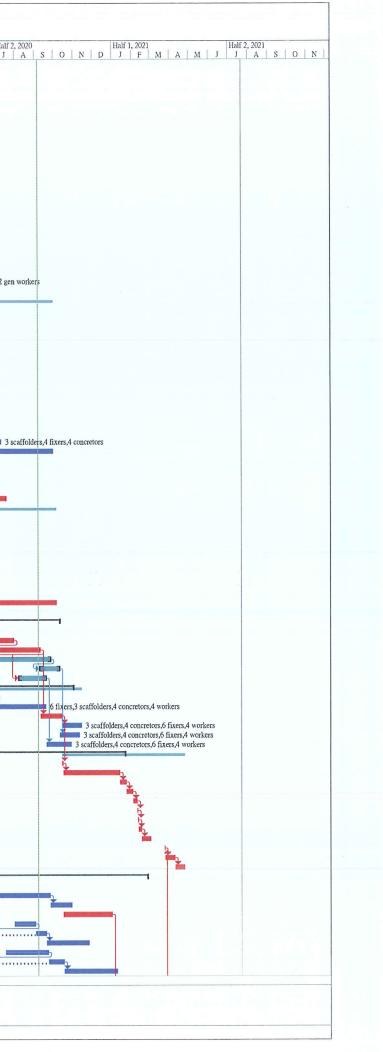
Contract 2 (NE/2016/05)

				Contract No. NE/2016/05 Development of Anderson Road Quary Site Connection of Pedestrian Facilities Works Phase 1 - Accepted Programme Section A Portions 1, 2, 3 August 2020
	Task Name	Duration S	start Finish Pre	Half 1 2020 Half 1 2020
	4 Public Holidays since 1 April 2017	173 days T	Tue 31/3/20 Sat 10/10/20 3	51
			And the second sec	
	7 CE 051 - 7days exam	6 days		
			the second se	
	11 CE102 - 11days inclement weather June 2018			
Option Option<	14 PMI-159 - 1day exam	1 day	13	
Image: constraint with the pite in the pite	15 CE171 10 days exam Mar & April 2019			
Q Qi Qi <t< td=""><td></td><td></td><td>16</td><td></td></t<>			16	
	21 1 day inclement weather June 2019	1 day	20	
	24 12 days exam June 2019		23	
	25 11 days exam Jan 2020	11 days	24	
Image: Provide State Stat				
C MARKAN MARK 1998 H. 1000 View Note Note <td< td=""><td>28 6 days exam April 2020</td><td>6 days</td><td>27</td><td></td></td<>	28 6 days exam April 2020	6 days	27	
Image: set of the set of th	29 COVID-19 Event Jan 31 to Mar 18, 2020	52 days		
Number Part of the state of th	30 5 days exam May 2020 31	5 days	1 nu 3/12/20 Tue 8/12/20 29	
Set Set Prive DF and C1 (2 min) Prive PF and C1 (2 min) Prive	32 Submissions			
Bit Note Note Note Note Note Note Note Not	33 MS socket H pile for RS1 and PC1 (3 revisions)			
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2 Solver 7000 March Mill Ruillonii 2 Solver 7000 March Mill Ruillonii 3 Solver 7000 Solver 7000 3 Solver 7000 Solver 7000 Solver 7000 3 Solver 7000 Solver <t< td=""><td></td><td></td><td></td><td></td></t<>				
Status	43 MS pilecap			
Status	44 MS pile load test PC1 (3 revisions)			
2 No. 2 <td< td=""><td></td><td></td><td></td><td></td></td<>				
 Approx 1/25. By Bird By Bird<td>47 MS ELS (2 revisions)</td><td>182 days</td><td>Fri 27/4/18 Fri 16/11/18</td><td></td>	47 MS ELS (2 revisions)	182 days	Fri 27/4/18 Fri 16/11/18	
Description Product Production ProductiProdicion Production Production				
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Approved AdS The Main Hard Press The Main Hard Press The Main Hard Press Constant, Filter Hard Hard Press 44 pps Main Hard Press 44 pps Section of Filter Hard Hard Press 44 pps Main Hard Press 44 pps Constant, Filter Hard Hard Press 44 pps Main Hard Press 44 pps Constant, Filter Hard Hard Hard Hard Hard Hard Hard Har	51 MS Pier formwork (4 revisions)			
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vist 3 dogs Fit 144117 Mon 174178 Construction 2 dogs Fit 24417 Won 174178 Construction 2 dogs Fit 24417 Won 174178 Construction 2 dogs Fit 24417 Won 174178 Construction 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Sec 20417 Won 1745117 Fit dial 17816 4 dogs Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 188 Fit dial 288 Fit dial 188				
Origination difference 2.8 dig The 2.8 dig <td>58 Inspection pits</td> <td>3 days</td> <td>Sat 22/4/17 Wed 26/4/17 57</td> <td></td>	58 Inspection pits	3 days	Sat 22/4/17 Wed 26/4/17 57	
□ Preding Works ● 96 dig \$ 12.9871 \$ sol 1.9801 \$ 0 dig 0 dig > 12.9811 \$ 0 dig 0 dig > 12.9811 \$ 0 dig 0 dig > 12.9811 \$ 0 dig				
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1 Produit 100:1:02 5 days Weil 140:07:17:02 (2017) 70:17 2 Addision Produiting at PDE 100:03 7 days Fig. 40:07:07 (2017) 70:17 (11/17) 72:17 2 Addision Produiting at PDE 100:03 7 days Fig. 40:07:07 (2017) 70:17 (11/17) 72:17 2 Addision Produiting at PDE 100:03 7 days Fig. 40:07:07 (2017) 70:17 (11/17) 72:17 2 Torey Site Entrance 7 days Fig. 40:07:07 (2017) 70:17 (11/17) 72:17 (11/17) 72:17 0 Torey Site Entrance sort E1/C3 15 days Fig. 20:07:07 (2017) 70:17 (11/17) 72:17 (11/17)	69 Predrill PD/E1/06	6 days	Sat 3/6/17 Fri 9/6/17 68	L rig 3 gang members
22 Additional Proteiling of PMDisol 12 days Tue 200(17 Tue 11/1/17 1) 3 Additional Proteiling of PMDisol 7 ays Tue 4/3/17 St 11/4/37 44 ProContraction Works 309 days Tue 4/3/17 St 11/4/37 6 Tue 3/16 Entrance 7 days Tre 4/3/17 Tue 11/1/17 7 Trees 21 days Fin 4/3/17 Tue 11/1/17 8 Dennish manbole PM1015 20 days Mon 21/07 Tue 12/09/17 9 Description 9 days Mon 21/07 Tue 12/07/18 8 Hon 20 day of 67 sinon + Mon 200 21/16 St 20/20/18 Start PMI 20/20/18 St 20/20/17 8 Hon 20 days Start PMI 20/20/18 St 20/20/17 Start PMI 20/20/18 St 20/20/17 8 Hon 20 days Start PMI 20/20/18 St 20/20/17 Start PMI 20/20/17 9 Hon 20				
$ \frac{3}{2} Additional Precluiting for PM100 > 7 dys Precluiting for PM100 > 7 dys Precluiting repairs with a start of PM10 > 7 dys Precluiting repairs $				ing 3 gang members
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	73 Additional Predrilling for PMI003	7 days	Tue 4/7/17 Tue 11/7/17 72	1 rig 3 gang members
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	76 Temp Site Entrance	7 days	Fri 4/8/17 Fri 11/8/17 75	
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22 Hal Road 457 days Mon 1/10/18 Tic 22/02/0 3 MS Hull Road (6 revisions) 670 days Mon 1/10/18 Fiz 2/12/18 41 Haul Road to PC1 10 days Fiz 2/12/18 55 Haul Road to PC3 3 days Sat 17/11/18 Tic 2/12/18 67 Approval for Haul Road to PC3 3 days Fiz 2/12/18 Tic 2/2/12/18 76 Approval for Haul Road to PC3 3 days Fiz 2/12/18 Tic 2/2/12/18 77 Approval for Haul Road to PC3 10 days Fiz 2/12/18 Tic 2/2/12/18 78 Haul Road to PC3 10 days Fiz 2/12/18 Tic 2/2/12/18 70 Insult Road to PC1 10 days Fiz 2/12/18 Tic 2/2/18 Tic 2/2/	80 Sheetpile Site Entrance near E1-PC5	15 days	Fri 29/9/17 Mon 16/10/1	
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84 Haul Road approval 29 days Mon 1/10/18 Fri 2/11/18 Sint 1/11/18 85 Haul Road to PC1 3 days Wed 1/11/18 Thu 2012/18/6 86 Haul Road to PC5 30 days Sint 1/11/18 Thu 2012/18/6 87 Approval for Haul Road to PC5 30 days Sint 1/11/18 Thu 2012/18/6 88 Haul Road to PC4 15 days Fri 2/12/18 Tu 2012/18 To 2012/18/6 89 Haul Road to PC4 15 days Fri 2/12/18 Tu 22/01 Tu 25/22/02 90 Drilling Works 61 days Sint 28/10/17 Tun 1/11/18 Sint 20/21/18 Po 92 Boring Machine deployment and set up(Chrs) 14 days Fri 17/11/18 Sint 24/18 Po 94 Drilling Works 61 days Sint 28/10/17 Tun 1/11/17 Sint 24/318 Po 95 Drill and grout H-Piles RS1 (22ms) 114 days Fri 17/11/17 Sint 24/318 Po 96 Drill and grout H-Piles RS1 (22ms) 114 days Fri 17/11/18 Sint 96.84 97 MS approval and Setup for E1-PC2 26 days Wed 25/7/18 Thu 23.8/18 Po.84 98 Fri 1/16 Sept. 2000 Yeige Sint Portion 1/3 (S Sept. 2002) Fri Shorely Inactive Task 98 Split Project Summary				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	65 MIS Haul Koad (6 revisions)	29 days	Mon 1/10/18 Fri 2/11/18 8	
87 Approval for Haul Road to PC5 30 days St 17/11/8 Thm 201/21/86 88 Haul Road to PC5 4 days Fri 21/2/18 Tur 25/21/87 98 Haul Road to PC1 10 days Fri 21/2/18 Mon 7/1/19 87 90 Haul Road to PC1 10 days Sti 12/2/18 Mon 7/1/19 87 90 Haul Road to PC1 10 days Sti 12/2/18 Mon 7/1/19 87 90 Philling Works 613 days? Stat28/10/17 Tur 14/11/17/13 91 Drilling Machine deployment and set up(2nrs) 11 days Stat28/10/17 Tur 14/11/17/13 92 Drill and grout H-Piles RS1 (22nrs) 11 days Fri 17/11/17 Sta 24/3/18 92 92 Drill and grout H-Piles RS1 (22nrs) 11 days Fri 11/2/18 Tur 24/7/18 94 93 Drill and grout H-Piles RS1 (22nrs) 11 days Fri 11/1/17 Sta 24/3/18 94 94 Drill and grout H-Piles RS1 (22nrs) 11 hog 24/18 94 96 96 Drill and grout H-Piles RS1 (22nrs) 11 hog 25/7/18 Thu 23/8/18 96.84 96 97 NS approval and Setup For E1-PC2 26 days Wed 25/7/18 Thu 23/8/18 96.84 96 97 Ms approval and Setup For E1-PC2 26 days Summary Inacti	84 Haul Road approval			
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90 Haul Road to PC1 10 days 613 days? 8 tri 14/2/20 Tue 25/2/20 91 Drilling Works 613 days? 8 tri 14/2/20 Tue 25/2/20 92 Boring Machine deloyment and set up(2nrs) 14 days 8 tri 28/10/17 Tue 14/11/1738 93 Drill and grout H-Piles E1-PC1 (12nrs) 60 days 7 Tue 12/11/18 Tue 24/7/18 94.95 94 Drill and grout E1-PC6 with revision PMI 057 92 days 92 Thu 12/4/18 Tue 24/7/18 94.95 95 MS Approval and Setup for E1-PC2 96 Drill and grout E1-PC6 with revision PMI 057 92 days 97 Tue 25/7/18 Thu 23/818 96.84 98 Fri 17/11/17 Sat 24/3/18 99.95 99 Drilling drout E1-PC6 with revision PMI 057 92 days 90 Thu 12/4/18 Tue 24/7/18 94.95 91 Task 92 Summary 92 Task 93 Summary 94 Drilling Summary Rollup 95 Finish-only 96 Drilling Summary Rollup 97 Task 98 Summary 99 Frish-only 90 Task 90 Task 90 Task 90 Summary 90 Task 90 Task 91 Task 91 Task 92 Summary 92 Task 92 Drilling Task 92 Dilt 93 Frish-only 94 Drilling Current Project Summary 95 Task 96 Drilling Current Project Summary 96 Task 97 Task 98 Summary 99 Frish-only 99 Task 99 Summary 90 Task	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5		Fri 21/12/18 Tue 25/12/188	
91 Drilling Works 613 days? Sat 28/10/17 Mon 16/9/1973 92 Boring Machine deployment and set up(2nrs) 14 days Sat 28/10/17 Wei 14/11/1773 93 Drill and grout H-Piles E1-PC1 (12nrs) 67 days Tue 14/11/1733 24/3/18 93 94 Drill and grout H-Piles R1-PC6 40 days Trie 27/2/18 Thu 12/4/18 94 95 MS Approval and Setup for E1-PC6 40 days Tue 27/2/18 Thu 12/4/18 94.95 96 Drill and grout H-Piles R1-PC6 40 days Tue 27/2/18 Thu 12/4/18 94.95 97 MS approval and Setup for E1-PC2 26 days Wei 25/7/18 Thu 23.8/18 96.84 voject: portion 1-3 (5 Sept. 2020) Task Summary Inactive Summary Manual Task Nanual Task Nanual Summary Rollup Finish-colly Progress voject: portion 1-3 (5 Sept. 2020) Split Project Summary Inactive Task Manual Task Manual Task Nanual Summary Detailine Progress Progress	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC5	4 days		
93 Drill and grout H-Piles E1-PC1 (12ms) 67 days Tue 14/11/15 at 27/1/18 92 94 Drill and grout H-Piles RS1 (22ms) 114 days Fri 17/11/17 Sat 24/3/18 93 95 MS Approval and Setup for E1-PC6 40 days Tue 27/2/18 70.43/18 93.45 96 Drill and grout E1-PC6 with revision PMI 057 92 days Tue 12/4/18 Tue 24/7/18 94.95 97 MS approval and Setup for E1-PC2 26 days Wed 25/7/18 Thu 23/8/18 96.84 Task Summary External Milestone Inactive Summary Manual Summary Rollup Finish-only Critical Split voject: portion 1-3 (5 Sept. 2020)	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC5 89 Haul Road to PC4	4 days 15 days	Fri 21/12/18 Mon 7/1/19 8	
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95 MS Approval and Setup for E1-PC6 40 days Tue 27/2/18 Thu 12/4/18 94, 95 96 Drill and grout E1-PC6 with revision PMI 057 92 days Thu 12/4/18 Tue 24/7/18 94, 95 97 MS approval and Setup for E1-PC2 26 days Wed 25/7/18 Thu 23/8/18 96.84 Task split Finish-only Inactive Summary Project Summary Inactive Task Manual Task Manual Summary Rollup Finish-only Progress View Project Summary Inactive Task Manual Task Manual Summary Deadline Progress	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC5 89 Haul Road to PC4 90 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs)	4 days 15 days 10 days 613 days? 14 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177	
MS approval and Setup for E1-PC2 26 days Wed 25/7/18 Thu 23/8/18 96.84 roject: portion 1-3 (5 Sept. 2020) Task Summary External Milestone Inactive Summary Imactive Summar	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 89 Haul Road to PC5 89 Haul Road to PC4 90 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout 1I-Piles E1-PC1 (12nrs)	4 days 15 days 10 days 613 days? 14 days 67 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177 Tue 14/11/17Sat 27/1/18 9	J1 rig 6 gang mejnbers
voject: portion 1-3 (5 Sept. 2020) Task Summary Project Summary L I Anactive Task Manual Summary Manual	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC4 90 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout H-Piles RS1 (22nrs) 94 Drill and Set up (FL-PC6	4 days 15 days 10 days 613 days? 14 days 67 days 114 days 40 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/17 Tue 14/11/17 Sat 27/1/18 9 Fri 17/11/17 Sat 24/3/18 9 Tue 27/2/18 Thu 12/4/18 9	j1 rig 6 gang members
Task Summary Exterior influence Inactive Summary Deadline Progress voject: portion 1-3 (5 Sept. 2020) Split Project Summary Inactive Task Manual Task Deadline Progress	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC5 89 Haul Road to PC4 90 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout H-Piles E1-PC1 (12nrs) 94 Drill and grout H-Piles E51 (22nrs) 95 MS Approval and Setup for E1-PC6 96 Drill and grout E1-PC6 with revision PMI 057	4 days 15 days 10 days 613 days? 14 days 67 days 114 days 40 days 92 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177 Tue 14/11/17Sat 27/1/18 9 Fri 17/11/17 Sat 24/3/18 9 Frue 27/2/18 Thu 12/4/18 9 Thu 12/4/18 Tue 24/7/18 9	95
roject: portion 1-3 (5 Sept. 2020) Split Project Summary I I Inactive Task Manual Task Data Summary Deadline Progress	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC3 88 Haul Road to PC3 89 Haul Road to PC4 90 Haul Road to PC4 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout H-Piles E1-PC1 (12nrs) 94 Drill and grout H-Piles ES1 (22nrs) 95 MS Approval and Setup for E1-PC6 96 Drill and grout E1-PC6 with revision PMI 057	4 days 15 days 10 days 613 days? 14 days 67 days 114 days 40 days 92 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177 Tue 14/11/17Sat 27/1/18 9 Fri 17/11/17 Sat 24/3/18 9 Frue 27/2/18 Thu 12/4/18 9 Thu 12/4/18 Tue 24/7/18 9	95 84
Milestone External Tasks Inactive Milestone Duration-only Start-only Critical	84 Haul Road approval 85 Haul Road to PC1 & PC2 86 Haul Road to PC3 87 Approval for Haul Road to PC5 88 Haul Road to PC4 90 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout H-Piles E1-PC1 (12nrs) 94 Drill and grout H-Piles RS1 (22nrs) 95 MS Approval and Setup for E1-PC6 97 MS approval and Setup for E1-PC2	4 days 15 days 10 days 613 days? 14 days 67 days 114 days 40 days 92 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177 Tue 14/11/17S at 27/1/18 9 Fri 17/11/17 Sat 24/3/18 9 Tue 27/2/18 Thu 12/4/18 9 Thu 12/4/18 Tue 24/7/18 9 Wed 25/7/18 Thu 23.8/18 9	95 84 External Milestone \diamond Inactive Summary I I Manual Summary Rollup Finish-only Critical Split
	34 Haul Road approval 35 Haul Road to PC1 & PC2 36 Haul Road to PC3 37 Approval for Haul Road to PC5 38 Haul Road to PC4 39 Haul Road to PC1 91 Drilling Works 92 Boring Machine deployment and set up(2nrs) 93 Drill and grout II-Piles E1-PC1 (12nrs) 94 Drill and grout II-Piles RS1 (22nrs) 95 MS Approval and Setup for E1-PC6 96 Drill and grout E1-PC6 with revision PMI 057 97 MS approval and Setup for E1-PC2 98 Task	4 days 15 days 10 days 613 days? 14 days 67 days 114 days 40 days 92 days 26 days	Fri 21/12/18 Mon 7/1/19 8 Fri 14/2/20 Tue 25/2/20 Sat 28/10/17 Mon 16/9/197 Sat 28/10/17 Tue 14/11/177 Tue 14/11/17S at 27/1/18 9 Fri 17/11/17 Sat 24/3/18 9 Tue 27/2/18 Thu 12/4/18 9 Wed 25/7/18 Thu 23/8/18 9	95 95 84 1 External Milestone 1 Inactive Summary Manual Summary Manual Summary Manual Summary Deadline Progress

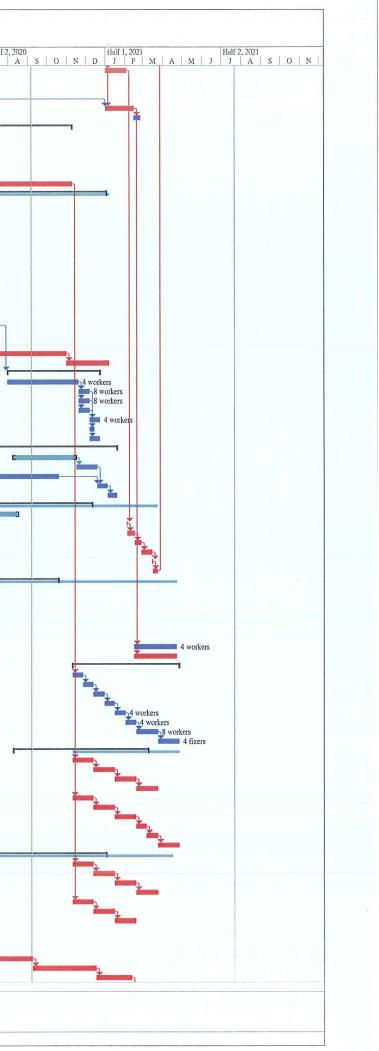


		Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Accepted Programme Section A Portions 1, 2, 3 August 2020
Task Name	Duration Start Finish Predece	Section A Portions 1, 2 3 August 2020 Balf 2, 2017 Half 1, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 A M 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 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 <t< th=""></t<>
Drill and grout E1-PC2 (12 nrs) with revision PMI 056	40 days Thu 23/8/18 Sat 6/10/18 97	
MS approval and Rig Setup for E1-PC3 Drill and grout E1-PC3 (16 nrs) incomplete	40 days Sun 7/10/18 Wed 21/11/198 20 days Tue 20/11/18 Wed 12/12/186,99	thig 6 gang members
MS approval and Setup rig to PC5	8 days Wed 12/12/1 Thu 20/12/18100	
Near Miss Incident Drill and grout E1-PC5 (12 nrs)	21 days Fri 21/12/18 Sat 12/1/19 101 20 days Mon 14/1/19 Tue 5/2/19 102	l rig 6 gang members
Drill and grout E1-PC4 (16 nrs)	60 days Tue 5/2/19 Fri 12/4/19 103	ing 6 gang members
Drill and grout E1-PC3 (5 nrs) Inclement weather Knock-out to Haul Road	14 days Sat 13/4/19 Mon 29/4/19 104 25 days Mon 29/4/19 Mon 27/5/19 105	
Subcontractor Everwin Termination Effect	30 days Mon 27/5/19 Sat 29/6/19 208	
Drill and grout E1-PC3 staircase (8 nrs) Additional Predrill PC3 Staircase	36 days Tue 23/7/19 Sat 31/8/19 107 7 days Mon 2/9/19 Mon 9/9/19 108	
ELS & Pile Cap works E1-PC1	657 days Mon 2/4/18 Mon 6/4/20 306 days Thu 19/4/18 Wed 27/3/1993FS-30	
Excavate E1-PC1	43 days Thu 19/4/18 Wed 6/6/18 81	1 excavator 2 gen werkers
Blinding E1-PC1 Pile Head Welding	1 day Thu 7/6/18 Thu 7/6/18 113 15 days Fri 8/6/18 Mon 25/6/18 114	1 gang 4 concreters 1 gang 4 welders
MS formwork (3 revisions)	89 days Fri 8/6/18 Sat 15/9/18 114	
Formwork E1-PC1	5 days Sat 15/9/18 Fri 21/9/18 116 61 days Sun 15/7/18 Fri 21/9/18	hgang 6 formworkers
BBS Approval Rebar fix E1-PC1	11 days Fri 21/9/18 Thu 4/10/18 118,114	1 gang 5 fixers
MS concrete Concrete E1-PC1	7 days Thu 27/9/18 Thu 4/10/18	
Waterproofing PMI 112	1 day Fri 5/10/18 Fri 5/10/18 119,120 84 days Sat 6/10/18 Tue 8/1/19 121	1 gang 4 concretors 2 gen workers
Backfill no-fines	70 days Tue 8/1/19 Wed 27/3/19 122	
E1-PC6 MS Piling E1-PC6 (2 revisions)	368 days Mon 2/4/18 Sat 18/5/19 96 8 days Mon 2/4/18 Tue 10/4/18	
MS Approval	194 days Tue 10/4/18 Tue 13/11/18125	excavator 2 gen workers
Excavate E1-PC6 Blinding E1-PC6	44 days Wed 14/11/1 Wed 2/1/19 96,126 1 day Wed 2/1/19 Thu 3/1/19 127	h gang 4 concretors
Pile Head Welding	5 days Fri 4/1/19 Wed 9/1/19 128	1 gang 4 welders
BBS Approval ELS	60 days Fri 24/8/18 Tue 30/10/18 80 days Tue 30/10/18 Mon 28/1/19 130	1 excavator 2 gen workers, 1 gang 4 welders
Formwork E1-PC6	9 days Thu 10/1/19 Sat 19/1/19	a 1 gang 6 formworkers
Rebar Fix E1-PC6 Surface Geometric Testing	9 days Tue 22/1/19 Thu 31/1/19 23 days Thu 31/1/19 Tue 26/2/19 133	and gang 6 fixers
Concrete E1-PC6 footing	1 day Wed 27/2/19 Wed 27/2/19 134	Eans 4 concretors 2 gen workers
Waterproofing PMI 112 Backfill no-fines	41 days Thu 28/2/19 Mon 15/4/19 135 30 days Mon 15/4/19 Sat 18/5/19 136	
RS1	227 days Wed 5/9/18 Thu 16/5/19 94FS-50	
Sheetpiling Piling RSI	30 days Wed 5/9/18 Mon 8/10/18 24 days Tue 9/10/18 Tue 6/11/18 139	1 excavator 2 gen workers
Blinding RS1	1 day Mon 5/11/18 Mon 5/11/18 140	1 gang 4 boncretors
Blinding RS1 ELS Pile Head Welding ELS as-built approval	12 days Tue 6/11/18 Mon 19/11/1141 5 days Sat 17/11/18 Thu 22/11/18142	1 gang 4 welders
ELS as-built approval	25 days Fri 30/11/18 Fri 28/12/18 149	
Near Miss Incident Remove Waling	21 days Fri 21/12/18 Sat 12/1/19 3 days Mon 14/1/19 Wed 16/1/19 145,149	
Formwork RS1	10 days Mon 14/1/19 Thu 24/1/19 145	1 gang 6 formworkers
Revised Rebars PMI 148 BBS Approval	30 days Sat 20/10/18 Fri 23/11/18 30 days Sat 24/11/18 Thu 27/12/18148	
Rebar Fix RS1	5 days Thu 24/1/19 Tue 29/1/19 147,149	a gang 6 fixers
CNY PH Continue Rebar Fix RS1	9 days Tue 29/1/19 Fri 8/2/19 150 9 days Fri 8/2/19 Mon 18/2/19151	
Surface Geometric Testing	15 days Tue 19/2/19 Thu 7/3/19 152	
Concrete RS1 Waterproofing PMI 112	1 day Thu 7/3/19 Fri 8/3/19 153 32 days Fri 8/3/19 Sat 13/4/19 154	1 gang 4 concretors 2 gen workers
Backfill no-fines	30 days Sat 13/4/19 Thu 16/5/19 155	
E1-PC2 MS ELS PC2 (4 revisions)	177 days Thu 27/9/18 Fri 12/4/19 98FS-30 54 days Thu 27/9/18 Mon 26/11/1 1000000000000000000000000000000000000	
Sheetpiling E1-PC2	11 days Mon 26/11/1 Fri 7/12/18 158	Lexcevator 2 gen workers
Piling PC2 Blinding PC2	20 days Fri 7/12/18 Sat 29/12/18 159 1 day Sat 29/12/18 Sat 29/12/18 160	and a concretors
Pile Head Welding	7 days Mon 31/12/1 Mon 7/1/19 161	1 gang 4 welders
BBS Approval Formwork PC2	7 days Mon 7/1/19 Tue 15/1/19 7 days Tue 8/1/19 Tue 15/1/19 161	ang 6 formworkers
Rebar Fix PC2	8 days Wed 16/1/19 Thu 24/1/19 164	1 gag 6 fixers
Formwork PC2 Rebar Fix PC2 Surface Geometric Testing Concrete PC2	19 days Thu 24/1/19 Thu 14/2/19 165 1 day Fri 15/2/19 Fri 15/2/19 166	1 gang 4 concretors 2 gen workers
Waterproofing PMI 112	40 days Sat 16/2/19 Tue 2/4/19 167	
Backfill no-fines E1-PC5	10 days Tue 2/4/19 Fri 12/4/19 168 322 days Mon 14/1/19 Thu 9/1/20 168	
Sheetpile Site Entrance near E1-PC5	5 days Mon 14/1/19 Fri 18/1/19	■ 1 excavator 2 gen workers
Piling E1-PC5 Sheetpile remaining works E1-PC5	19 days Fri 8/3/19 Fri 29/3/19 154,186 30 days Fri 29/3/19 Thu 2/5/19 172	
Excavate E1-PC5	20 days Sat 4/5/19 Sat 25/5/19 173	1 excavator 4 gen workers
Subcontractor Everwin Termination Effect Continue excavate E1-PC5	60 days Mon 27/5/19 Thu 1/8/19 174 90 days Thu 1/8/19 Sat 9/11/19 175	
Blinding E1-PC5	1 day Mon 11/11/1 Mon 11/11/1 174,175	1 gang 4 concretors
Pile Head Welding Formwork E1-PC5	28 days Tue 12/11/15 Thu 12/12/15/177 6 days Fri 13/12/19 Thu 19/12/15/178	1 gang 4 welders
Rebar fix E1-PC5	6 days Thu 19/12/19 Thu 19/12/19178 6 days Thu 19/12/19Thu 26/12/19179	
Concrete E1-PC5 Waterproofing PMI 112	2 days Thu 26/12/15 Sat 28/12/19 180 4 days Sat 28/12/19 Thu 2/1/20 181	1 gang 4 concretors 2 gen workers
Backfill no-fines	4 days Sat 28/12/19 Thu 2/1/20 181 2 days Thu 2/1/20 Sat 4/1/20 182	
E1-PC4 Sheetpiling	317 days Tue 22/1/19 Sat 11/1/20 104	
Sheetpiling Drilling 5nos piles	20 days Tue 22/1/19 Wed 13/2/19 14 days Wed 13/2/19 Thu 28/2/19 185,203	
Redrill piles	14 days Fri 29/3/19 Sat 13/4/19 172	
Grout piles Sheetpile remaining works E1-PC4	6 days Mon 15/4/19 Sat 20/4/19 187 31 days Sat 20/4/19 Sat 25/5/19 188	
Subcontractor Everwin Termination Effect	60 days Sat 25/5/19 Thu 1/8/19 189	La coustor 7 on waters
Excavate E1-PC4 Temp soil storage	75 days Thu 1/8/19 Thu 24/10/15189,190 30 days Thu 24/10/15Tue 26/11/15191	1 excavator 2 gen workers
Blinding E1-PC4	1 day Wed 27/11/1 Wed 27/11/1 192	I gang 4 concretors
Pile Head Welding	13 days Thu 28/11/15 Thu 12/12/15193	1 gapg 4 welders
Task	Summary .	External Milestone 🚸 Inactive Summary 🕴 🖡 Manual Summary Rollup — Finish-only 🕽 Critical Split
t: portion 1-3 (5 Sept. 2020) Split	Project Summary	Inactive Task Manual Task Manual Summary Deadline Progress
Milestone	 External Tasks 	Inactive Milestone Duration-only Start-only C Critical

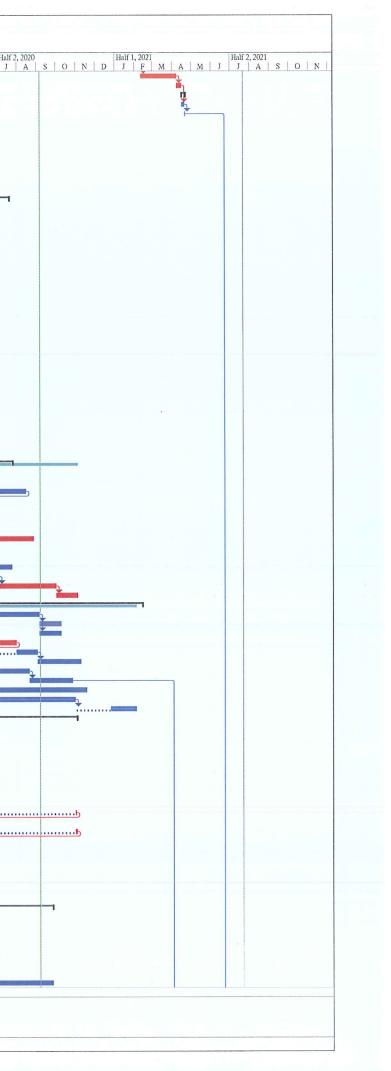
			Connection of Pedestrian Facilities Works Phase 1 - Accepted Programme Section A Portions 1, 2, 3 August 2020 Unice 2017
ask Name	Duration	Start Finish Predeces	Half 2, 2017 Half 1, 2018 Half 2, 2019 Half 2, 2019 Half 1, 2020 M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M M J A M A M A M
BBS Approval	94 days 17 days	Sat 20/4/19 Sat 3/8/19 188 Thu 28/11/15Tue 17/12/15193	1 gkng 6 formworkers
Fornwork E1-PC4 Rebar Fix E1-PC4	8 days	Tue 17/12/15 Wed 25/12/1 196	1 gang 6 fixers
Concrete E1-PC4	1 day	Thu 26/12/15 Thu 26/12/15197	51 gang 4 concretors 2 gen work
Waterproofing PMI 112 Backfill no-fines	4 days 10 days	Fri 27/12/19 Tue 31/12/15 198	
E1-PC3 & RC staircase	423 days	Tue 31/12/19 Sat 11/1/20 199 Fri 28/12/18 Tue 14/4/20 100	*****
MS ELS (2 revisions)	17 days	Fri 28/12/18 Wed 16/1/19	
Drilling 5nos piles	20 days	Tue 15/1/19 Wed 6/2/19	
BBS Approval Continue drilling 11nos piles	30 days 30 days	Mon 11/3/19 Fri 12/4/19 Mon 15/4/19 Fri 17/5/19 187	
Demobilize Everwin drilling rig	7 days	Sat 18/5/19 Sat 25/5/19 205	
Subcontractor Everwin Termination		Sat 25/5/19 Sat 29/6/19 206	
Mobilize Ping On drilling rig to PC Sheetpile PC3 & RC Staircase	3 staircase 43 days 10 days	Sat 29/6/19 Fri 16/8/19 206,207 Tue 3/9/19 Fri 13/9/19 108,208	
Excavate PC3 & Staircase	10 days	Fri 13/9/19 Wed 25/9/19 205,209	1 excavator 2 gen workers
Removal of backfill material	45 days	Wed 25/9/19 Thu 14/11/19210	
ELS Blinding PC3 & staircase	32 days 1 day	Thu 14/11/15Fri 20/12/19 211 Fri 20/12/19 Sat 21/12/19 212	bl gang 4 concretors
Pile Head Welding	12 days	Sat 21/12/19 Fri 3/1/20 213	and a second sec
Formwork PC3 & Staircase pilecap		Fri 3/1/20 Fri 17/1/20 214	1 gang 6 formworkers
Rebar Fix PC3 & staircase pilecaps		Fri 17/1/20 Sat 1/2/20 215 Sat 1/2/20 Sat 28/3/20 216	1 gang 6 fixers
COVID-19 Event Jan 31 to Mar 18 Concrete PC3 & Staircase pilecaps	, 2020 50 days 1 day	Sat 1/2/20 Sat 28/3/20 216 Sat 28/3/20 Mon 30/3/20217	h1 gang 4 c
Backfill no-fines	14 days	Mon 30/3/20 Tue 14/4/20 218	
uperstructure	495 days		
Submission of Temp Work design and Approval of Temp Work design and M		Sat 1/12/18 Mon 17/12/1 Mon 17/12/1 Sat 19/1/19 221	
Submission of Temp Work design and	MS for Piers(Rev 240 days	Sat 19/1/19 Tue 5/3/19 222	
Approval of Temp Work design and M		Tue 5/3/19 Mon 8/4/19 223	
Submission of Temp Work design and Approval of Temp Work design and M		Mon 8/4/19 Tue 30/4/19 224 Tue 30/4/19 Sat 8/6/19 225	
Subcontractor Everwin Termination E	ffect 60 days	Sat 8/6/19 Wed 14/8/19226	
Construction of Cap (E1-PC6) with da			¹³ scaffolders,4 fixers,4 concrete
Construction of E1-PC6 RC Abutmen PC6 Backfill & remove waling	t walls 120 days 80 days	Fri 27/12/19 Sat 9/5/20 228 Sun 1/3/20 Fri 29/5/20 228	
Construction of Ramp (E1-RS1)	141 days		
Construction of Pier P1	58 days	Wed 14/8/19 Fri 18/10/19 227	3 scaffolders, 4 fixers, 4 concretors
Construction of Pier P2 Construction of Pier P5	9 days 13 days	Fri 18/10/19 Mon 28/10/1232 Sat 4/1/20 Sat 18/1/20 183	3 scaffolders,4 fixers,4 concretors
Construction of Pier P3	15 days 162 days		
Construction of Pier/P3 Staircase	160 days	Sat 4/4/20 Wed 30/9/20	
Construction of Pier Head P1 Construction of Pier Head P2	8 days	Fri 13/3/20 Sat 21/3/20 Sat 21/3/20 Tue 31/3/20 237	
Construction of Pier Head P2 Construction of Pier Head P5	8 days 8 days	Sat 21/3/20 Tue 31/3/20 237 Tue 31/3/20 Wed 8/4/20 238	
Construction of Pier Head P3	30 days	Thu 9/4/20 Tue 12/5/20 239	
Construction of Pier Head P4	60.5 days		
Construction of Bearings and Movem Proposal of Bridge Bearing Specialist		Sat 6/10/18 Wed 20/5/20 Sat 6/10/18 Thu 8/11/18	
Approval of Bridge Bearing Specialis		Thu 8/11/18 Wed 12/12/1243	Ť,
Design submission of Bridge Bearing	60 days	Thu 13/12/18Mon 18/2/19 244	
Approval of Design submission of Br Material Submission for Bridge Beari		Mon 18/2/19 Sat 23/3/19 245 Mon 25/3/19 Thu 30/5/19 246	
Approval of Material Submission for	Bridge Bearing 60 days	Thu 30/5/19 Tue 6/8/19 247	
Testing and result submission of Brid	ge Bearings 90 days	Tue 6/8/19 Thu 14/11/19 248	
Procurement to delivery of Bridge Be Installation of Bridge Bearings for PC		Thu 14/11/19 Sat 18/4/20 249 Sat 9/5/20 Sat 16/5/20 229	
Installation of Bridge Bearings for PC	3 130 days	Tue 12/5/20 Mon 5/10/20 240	
TTA for Detouring Pedestrians aat M	emorial Park 10 days	Mon 20/1/20 Thu 30/1/20	
Site formation for scaffolding RS1-PC1	172.75 d 20 days	ays Wed 1/4/20 Sat 10/10/20 Wed 1/4/20 Thu 23/4/20	
P5 to P6	88 days	Thu 23/4/20 Thu 30/7/20 255	
P4 to P5	110 days	Sat 9/5/20 Thu 10/9/20 256	
P3 to P4 P2 to P3	110 days 30 days	Wed 27/5/20 Sat 26/9/20 257 Tue 8/9/20 Sat 10/10/20 258	
P2 to P3 P1 to P2	40 days		
Construction of esclator trough with o	ast-in items 172 days	5 Thu 23/4/20 Sat 31/10/20	
Deck RS1 to P1	63 days	Thu 23/4/20 Thu 2/7/20 255	
Deck P5 to P6 Deck P4 to P5	90 days 30 days	Sat 23/5/20 Fri 18/9/20 262 Thu 10/9/20 Tue 13/10/20257	
Deck P3 to P4	28 days	Wed 14/10/2 Fri 13/11/20 264	
Deck P2 to P3	27 days		
Deck P1 to P2 Escalators Installation	35 days 190 days		
Plumbing & measuring of escalator p	it 2 days	Wed 14/10/2 Thu 15/10/20264	
Delivery, hoisting and positioning of	escalator truss 80 days	Fri 16/10/20 Wed 13/1/21 269	
Drive/ step chain, step and guiderail Balustrade, handrail, skirting and det		Wed 13/1/21 Sat 23/1/21 270 Sat 23/1/21 Tue 2/2/21 271	
Electrical works and escalator pits in		Wed 3/2/21 Tue 9/2/21 272	
Permenant power energization for es	calator 1 day	Tue 9/2/21 Wed 10/2/21 273	
Inspection(low) speed running testin Final tuning and adjusting of escalate		Wed 10/2/21 Thu 11/2/21 274 Thu 11/2/21 Tue 16/2/21 275	
Normal (fast) speed running and safe		Tue 16/2/21 Tue 2/3/21 276	
Submission of Form LE5 to EMSD	1 day	Wed 24/3/21 Wed 24/3/21 345	
Anticipate EMSD inspection Anticipate Use Permit issue date	14 days 14 days	Thu 25/3/21 Fri 9/4/21 278 Fri 9/4/21 Sat 24/4/21 279	
Parapet and Roofing		ays Tue 13/11/18 Thu 25/2/21	
Proposal of off-site fabrication of stee	elworks 180 days	5 Tue 13/11/18 Sat 1/6/19	
Approval of off site fabrication of ste Fabrication of steelworks off-site	elworks 240 days 30 days		
Erection of steelworks off-site		ys Fri 16/10/20 Thu 31/12/20	
Material submission of fall arrest syst	em 30 days	Fri 31/7/20 Wed 2/9/20	
Approval of material for fall arrest sy	stem 30 days	Thu 5/3/20 Sat 19/9/20 286	Ŷ ─
Procurement of fall arrest system Material submission of corrugated sto	60 days rel roof 60 days	Sat 19/9/20 Wed 25/11/2 287 Fri 17/7/20 Tue 22/9/20	
Approval of material for corrugated se	teel roof 90 days	Tue 7/1/20 Sat 17/10/20 289	
Procurement of corrugated steel roof	75 days	Sat 17/10/20 Sat 9/1/21 290	
riocarchien of confugated sectroor			
		Summor:	Estand Milatona & Institus Supprover E E Manual Supervary Dollan Einich only 7 Critical Cult
xortion 1-3 (5 Sept. 2020) Task Split		Summary Project Summary	External Milestone



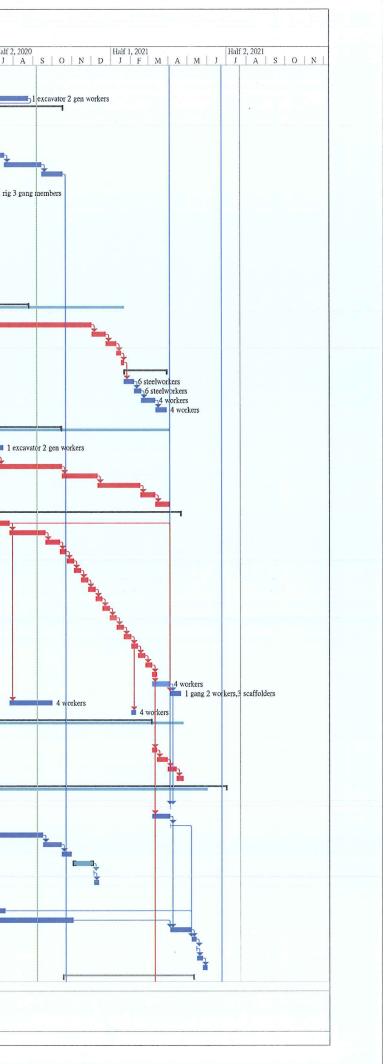
								Connection of F	edestrian Facilities Wor Section A Portions 1,	2, 3 August 2020				
Task Name		Duration	Start Finish	Predeces	M A M J J A	17 S O N I	Half 1, 2018 J F M	AMJ	Half 2, 2018	Half	1,2019 F M A M	Half 2, 2019) S O N D	Half 1, 2020 J F M A M
	of system, gutter and fall arrest system ission of Plexiglass	30 days	Fri 1/1/21 Wed 3/	2/21 285										
	aterial Plexiglass	60 days 30 days	Thu 2/1/20 Mon 9/ Fri 10/4/20 Wed 13											
Procurement to	o delivery of Plexiglass	30 days	Thu 14/5/20 Tue 16	6/20 294										Ť
	of Plexiglass parapet	40 days	Fri 1/1/21 Mon 15											
Decking constr Drainage Works	ruction connecting to existing footpath s Construction	10 days 650 days	Mon 15/2/21 Thu 25 Tue 13/11/18 Mon 9/											
Application of	XP for carriageway for Hiu Ming Street	90 days	Tue 13/11/18 Thu 21	2/19						1999 - 241 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1				
TTA Applicati Road Works A	ion for drainage works at Hiu Ming Street	80 days 300 days	Thu 21/2/19 Wed 22 Wed 22/5/19 Wed 22									7		
Implementation		30 days	Wed 22/3/19 Wed 22 Wed 22/4/20 Mon 25											
Procurement to	o delivery of material for Drainage	20 days	Tue 26/5/20 Wed 17	/6/20302										1
	of Drainage PMI 016	130 days	Wed 17/6/20 Mon 9/											
& M Lighting Proposal of Sp	works becialist for E&M Works	699 days 24 days	Tue 13/11/18 Sun 3/2 Tue 13/11/18 Sat 8/12											
Approval of Sp	pecialist for E&M Works	24 days	Mon 10/12/1 Sat 5/1											
	nission of cable tray	30 days	Sat 5/1/19 Thu 7/2								-			
	naterial cable tray ission of cables, conduits, fittings	30 days 24 days	Fri 8/2/19 Wed 13 Wed 13/3/19 Tue 9/4											
Approval of m	naterial for cables conduits fittings	24 days	Tue 9/4/19 Mon 6/	5/19 310							*			
	ission of lightings	30 days	Mon 6/5/19 Sat 8/6								in in	-		
	naterial submission of Lightings hission of Pillar Box c/w accessories	30 days 26 days	Sat 8/6/19 Fri 12/ Fri 12/7/19 Sat 10/											
	naterial submission of Pillar Box c/w access		Fri 12/7/19 Sat 10/									*		
Material submi	ission of MCB distribution board	30 days	Fri 8/2/19 Wed 13											
	ICB distribution board ission of communication cables	30 days 30 days	Wed 13/3/19 Tue 16 Tue 16/4/19 Mon 20								+	b		
	ommunication cables	30 days	Mon 20/5/19 Sat 22/								1	1		
Application of	f Power supply	60 days	Sat 22/6/19 Wed 28	8/8/19319									1	
	f telemetry (Chubb) f E1 XP for telemetry by AECOM	100 days 164 days	Fri 15/11/19 Thu 5/2 Fri 1/5/20 Sat 31/										E.	
	f Telemetry Civil & E&M Works	164 days 60 days	Fn 1/5/20 Sat 31/ Sat 31/10/20 Wed 6/											
Construction an	d Installation works for pillar box	130 days	Fri 31/7/20 Wed 2	3/12/2319										
	d construction of Pillar Box	100 days	Fri 31/7/20 Thu 19											
	rks and laying of ducts and power cables rks and laying of telecommunication cables	15 days 15 days	Fri 20/11/20 Mon 7/ Fri 20/11/20 Mon 7/											
Installation of	E&M Component inside Pillar Box	15 days	Fri 20/11/20 Mon 7/	12/20325										
	d Connection of Telemetry system	15 days	Mon 7/12/20 Wed 22											
	Electricity Meter works inside pillar box	7 days 15 days	Mon 7/12/20 Mon 14 Mon 7/12/20 Wed 22											
ump pit and pu	umps	173 days	Fri 10/7/20 Tue 19	/1/21										
Construction o	of Sump pit	90 days	Fri 7/8/20 Mon 10											
	ductings for sump pit to existing manhole o delivery of Sump Pump, Piping and	30 days 90 days	Mon 16/11/2 Sat 19/ Fri 10/7/20 Mon	12/20 333										
	Sump Pump (by Wing Luen)	14 days	Sat 19/12/20 Mon 4/	1/21 335,334										
T&C of Sump	Pump System	14 days	Mon 4/1/21 Tue 19	/1/21 336										
	ighting for escalator & Delivery of Lighting and accessories	164 days 60 days	Thu 11/6/20 Fri 11/ Thu 11/6/20 Mon 1											
	escalator cover walkway to E&M	1 day	Wed 3/2/21 Thu 4/.											
Installation Co	onduit and cable containment	10 days	Thu 4/2/21 Tue 16	/2/21 340										
Cable and wiri Installation of		10 days	Tue 16/2/21 Fri 26/ Sat 27/2/21 Mon 1											
	tion to Lighting	14 days 1 day	Sat 27/2/21 Mon 1 Mon 15/3/21 Tue 16											
T&C of Lighti	ing	7 days	Tue 16/3/21 Tue 23	/3/21 344										
Landscape Worl		667 days	Wed 3/10/18 Mon 1							vorbere				
Remove felled Tree Pruning I	d trees PMI 018 PMI 042	3 days 3 days	Wed 3/10/18 Fri 5/1 Tue 3/3/20 Thu 5/1						• 41	workers				4 workers
Individual TR.	A Form 2	150 days	Wed 3/10/18 Tue 19	/3/19										
	f proposal of Landscape Specialist	30 days	Wed 3/10/18 Mon 5/						E2000	1				
Nursery Inspec	ction roposal of Landscape specialist	10 days 180 days	Mon 5/11/18 Fri 16/ Fri 16/11/18 Thu 6/							+				
Construction of	of hard and soft landscape works	60 days	Mon 15/2/21 Thu 22											
Rectification of	of Defects	60 days	Mon 15/2/21 Thu 22	/4/21 296										
	igs / Traffic Signs hission of Road Pavers	150 days 15 days	Tue 10/11/2(Mon 2 Tue 10/11/2(Thu 26											
Approval of m	naterial submission of Road Pavers	15 days	Thu 26/11/2(Sat 12/											
Procurement to	o delivery of Road Pavers	15 days	Sat 12/12/20 Wed 3	0/12/2357										
	elivery of concrete kerbs from CSD	15 days	Wed 30/12/2 Fri 15/											
Construction of Construction of		15 days 15 days	Fri 15/1/21 Mon 1. Tue 2/2/21 Thu 18											
Construction of	of Paved Area	30 days	Thu 18/2/21 Wed 2	4/3/21 361										
Installation of xternal Finishe	Traffic / Directional Signs	30 days	Wed 24/3/21 Mon 2											
xternal Finishe Material subm		190 days 30 days	Sun 9/8/20 Tue 9/ Tue 10/11/2(Sat 12/											
Approval of m	naterial of tiles	30 days	Sat 12/12/20 Fri 15/	1/21 365										
	to delivery of tiles	30 days	Fri 15/1/21 Thu 18											
Tiling works Material subm	nission of Paint	30 days 30 days	Thu 18/2/21 Wed 2 Tue 10/11/2(Sat 12/											
	naterial submission of paint	30 days	Sat 12/12/20 Fri 15/											
2nd submissio	on of paints	30 days	Fri 15/1/21 Thu 18	/2/21 370										
	naterial submision of paints to delivery of paints	15 days 15 days	Thu 18/2/21 Sat 6/3 Sat 6/3/21 Wed 2											
	, fungus resistant paint	30 days	Wed 24/3/21 Mon 2											
onstruction of	Sau Mau Ping Memorial Park	275 days	Sun 1/3/20 Sat 2/1	/21										
	ement work (11NE-D/CR222) hission of Pavillion	30 days 30 days	Tue 10/11/20 Sat 12/ Sat 12/12/20 Fri 15/											
	naterial submission of Pavillion	30 days	Fri 15/1/21 Thu 18											
Procurement to	to delivery of Pavillion	30 days	Thu 18/2/21 Wed 2	4/3/21 378										
	nissin of Bench	30 days	Tue 10/11/20 Sat 12											
	naterial submission of Bench to delivery of Bench	30 days 30 days	Sat 12/12/20 Fri 15/ Fri 15/1/21 Thu 18											
Design submis	ssion of Pole Light to LCSD	60 days	Mon 2/3/20 Thu 7/	5/20										
	aterial submission of Pole Light	10 days	Thu 7/5/20 Tue 19											
	naterial submission of Pole Light to delivery of Pole Light	10 days 90 days	Tue 19/5/20 Fri 29/ Sat 30/5/20 Tue 8/											
Construction of	of Pavillion, bench, pole light with ducting	90 days	Tue 8/9/20 Thu 17	/12/20386										
	of Irrigation system	50 days	Thu 17/12/2(Thu 1)											
	T. 1		- Cum	h	E		austino Come	E	E Manual Come D 1	lun	- Einish anle	3	Critical S-Us	
portion 1-3 (5 Se	ept. 2020) Task Split		 Summary Project Summary 	0	External Milestone		nactive Summary Ianual Task		 Manual Summary Rol Manual Summary 	iup	 Finish-only Deadline 	4	Critical Split Progress	
	· spin		i roject Summary	0	· Inactive Task	N	Related TASK		- Pronora Southing A		- Dendinie		11021035	
, or de la 1 2 (2 8 6	Milestone 🔶		External Tasks		Inactive Milestone	б. Г	Juration-only	Internet statements	Start-only	C	Critical	and the second second		



								E Connection of P	Contract No. NE Development of Andersor edestrian Facilities Work Section A Portions 1, 2	n Road Quarry S s Phase 1 - Acc	epted Programn	ne				
ID Task Name	Dura	ration	Start Finish	Predece	Half 2	,2017	Half 1, 2018		Half 2 2018	Hal	f 1, 2019		Half 2, 2019		Half 1, 2020 J F M A M	Half 2
389 Construction of Pavers	50 d		Thu 11/2/21 Thu 8/4/21	388	A M J J J	AJJU	K D J J F F	M A M J	JAJO	IN D J		1 M 9	J A D	U N D		
390 Handovwer to LCSD 391 General Inspection and Tie	7 da		Thu 8/4/21 Fri 16/4/21 Fri 16/4/21 Thu 22/4/2													
392 General Inspection and T			Fri 16/4/21 Wed 21/4/2													
393 Handover Portion 1	1 da	lay	Wed 21/4/21 Thu 22/4/2	1 392												
394 395 Section A, Portion 2 - Li	ft Tower (E2)															
396 Handover of Portion 1	1 da		Sat 1/4/17 Sat 1/4/17		1											
397 Site Preparation Works 398 Submissions			Sun 2/4/17 Thu 13/7/1 Wed 2/8/17 Sat 7/7/18	7 396					-1							
399 MS for Lift LT1 excavati			Tue 8/8/17 Sat 9/9/17													
400 MS Footbridge 401 MS trench excavation			Wed 16/5/18 Mon 18/6/1 Wed 2/8/17 Mon 4/9/17					[[maintent]]								
401 Wis itelicit excavation 402 Substructure			Thu 13/7/17 Mon 20/7/.		8											1
403 CSD	400	0 days 1	Fri 14/7/17 Fri 5/10/18	397	Ť											
404 MS for socket H pile E2- 405 MS for ELS covered wall			Tue 28/11/17Thu 2/8/18 Wed 13/12/1Thu 5/4/18				Contraction of the local division of the loc									
406 MS for platform for mini			Mon 18/12/1 Wed 21/2/1				and the second second									
407 MS Rock fall fence (2 rev			Mon 5/3/18 Sat 5/5/18	0 207	-											
408 MS tree pruning proposal 409 MS working platform			Thu 13/7/17 Thu 10/1/1 Fri 22/6/18 Wed 25/7/2		T											
410 MS ELS E2-PC1	30 c	days	Tue 20/11/18 Sat 22/12/1	8												
411 MS Piling 412 MS Temp Gravity Wall f			Tue 27/11/18 Sat 29/12/1 Fri 7/12/18 Sat 23/2/19							Constanting of the local division of the loc						
413 MS Concrete Block Platf	orm (2revisions) 35 c		Sat 8/12/18 Wed 16/1/													
414 MS Predrilling E3-PC2 (Mon 10/12/1 Sat 12/1/19													
415 MS footbridge 416 MS Lift Tower			Fri 14/12/18 Wed 16/1/ Tue 18/12/18 Sat 19/1/19													
417 Method Statement for Co	nstruction of Portion 2 45 d	days	Fri 5/10/18 Sat 24/11/1	8 403					Į.							
	ing, ELS, Pilecap and Pier Cons60 o Footbridge and Lift Tower 394		Fri 5/10/18 Tue 11/12/ Wed 1/8/18 Wed 16/10	and a second and a second as a										7		
420 Submission of MS for for	mwork design for concreting Bri150	0 days	Wed 1/8/18 Wed 16/10 Wed 1/8/18 Tue 15/1/1						Second Second Second Second							
	work design for concreting Brids 40 of		Wed 16/1/19 Fri 1/3/19								and the second second					
	on of Lift Towers E2-ST1 and 200 AS Submission of Lift Towers 30 of 200		Wed 1/8/18 Tue 12/3/1 Wed 13/3/19 Mon 15/4/								7					
424 Submission of MS for ins	tallation and Temporary Works 200	0 days	Wed 1/8/18 Tue 12/3/1	9					the second second second	The second second second						
	Works design for concreting of 30 of Material for Bridge Bearings 30 of		Wed Mon Mon 15/4/19 Sat 18/5/19	424							- Contraction					
427 Approval of Design and I			Sat 18/5/19 Fri 21/6/19													
428 Testing and result submis 429 Procurement, ordering an			Fri 21/6/19 Mon 23/9/									in the second se	€			
430 Steel Bridge			Tue 24/9/19 Wed 16/10 Fri 15/2/19 Sat 25/7/2									1			and the second	1
431 Submission of MS for Er	ection of Steel Truss 60 o	days	Wed 1/5/19 Sat 6/7/19										1			
	ation of steelworks for E2 and E 30 e ication of steelworks for Bridge 400		Tue 23/4/19 Sat 25/5/19 Sat 25/5/19 Sat 15/8/20											cities biographics and		
434 Submission of Design of			Wed 19/2/20 Mon 23/3/.													
435 Approval of Design of ro 436 Submsission of Material			Tue 24/3/20 Wed 15/4/													
430 Submission of Material 437 Approval of corrugated s			Wed 19/2/20 Mon 23/3/. Tue 24/3/20 Wed 15/4/.													
438 Procurement to delivery	f corrugated steel roof 120	0 days	Wed 15/4/20 Thu 27/8/2	0 437												Contract on the Party of
439 Submission of material fa 440 Approval of fall arrest sy			Wed 19/2/20 Mon 23/3/ Tue 24/3/20 Wed 15/4/													
441 Procurement to delivery	of fall arrest system 90	days	Wed 15/4/20 Fri 24/7/20												Y	
442Submission of Design of443Approval of Design and			Mon 1/6/20 Fri 3/7/20 Sat 4/7/20 Thu 1/10/2													9
	d delivery of Glazing and Louvr 30		Thu 1/10/20 Wed 4/11/													
445 E&M and Building works	450	0 days	Sun 29/9/19 Sat 13/2/2	1									-			
			Wed 1/7/20 Sat 5/9/20 Sat 5/9/20 Fri 9/10/20) 446												
448 Submission of Ventilatio	a System 30	days	Sat 5/9/20 Fri 9/10/20	0 446												
449Design submission of lig450Approval of Design Subr	ting at footbridge 278 hission of Lighting at footbridge 60		Tue 24/9/19 Thu 30/7/2 Thu 2/1/20 Wed 2/9/2											G		
451 Procurement to delivery			Wed 2/9/20 Mon 9/11/													
452 Submission of MS for Li	t Installation 60	days	Mon 15/6/20 Thu 20/8/2													the second second
453 Approval of MS for Lift 454 Procurement, ordering an			Thu 20/8/20 Tue 27/10 Fri 1/5/20 Wed 18/11													
455 Application of E1 XP for	telemetry by AECOM 164	4 days	Fri 1/5/20 Sat 31/10/.	20												
456 Completion of Telemetry 457 Setout Predrill location			Mon 2/11/20 Wed 3/2/2 Mon 24/4/17 Tue 3/11/2													
458 Contractor Site Office			Mon 24/4/17 Tue 25/4/1		h											
459 Site Clearance	70) days	Thu 27/4/17 Fri 14/7/17	7 458												
460 MS rock slope excavatio 461 Inspection pits			Thu 13/7/17 Wed 21/2/ Wed 21/2/18 Sat 3/3/18				¥.	1 gang 2 workers								
462 Noise Barrier for LT1	1 d	day	Sat 3/3/18 Sat 3/3/18	461				8 workers		-						
463 Blocks for Platform and 464 E2-PC1 Piling			Sun 4/3/18 Tue 3/4/18 Wed 4/4/18 Sat 12/5/1	and the second			1	1 rio 6	gang members							
465 EOT school examination	PMI 051 7 d	days	Fri 6/4/18 Fri 13/4/1	8												
466 Presplitting PMI 054 467 Rock slope cutting at LT			Tue 15/5/18 Wed 26/9/					<u> </u>	1 gan	ng 2 workers						
467 Rock slope cutting at LT 468 EOT school examination			Tue 15/5/18 Mon 2/11/ Tue 30/10/18Fri 2/11/1						9	N _D						
469 Rock slope cutting at LT	t to ground level(cont) 61	days	Fri 2/11/18 Tue 3/11/2	20 468						· · · ·						
470 EOT school examination 471 EOT school examination			Wed 9/1/19 Thu 31/1/ Thu 31/1/19 Wed 6/5/2							*	-					
472 Rock slope cutting at LT	to ground level(cont) 27	days	Sat 23/2/19 Mon 25/3/	19471							9					
473 CE171 10 days exam Ma 474 Rock cutting to basemen			Mon 25/3/19 Fri 5/4/19 Sat 6/4/19 Tue 23/6/2								-1 1					
			Mon 1/4/19 Wed	.0 4/3								3 scaffo	ders,4 workers			
476 Rock dowel stabilization	PMI 197 56	5 days	Fri 1/5/20 Thu 2/7/20							Later and the second					C	þ
477 Site Formation Works 478 Inspection Pit PMI 106			Tue 13/11/18at 26/9/2 Tue 13/11/18Thu 29/11							1 gang 2	workers					
479 Trial Trench for tree roo	s PMI 077 7 d	days	Tue 13/11/18 Tue 20/11	/18							2 gen workers					
480 Approval of tree pruning 481 Prune / Fell trees for acc			Thu 10/1/19 Mon 15/4/									4 painters				
482 Relocation of RCP			Tue 16/4/19 Fri 26/4/19 Sat 1/6/19 Mon 17/6/										excavator 2 gen work		SL2	
483 SWAP TTA	120	20 days	Mon 17/6/19 Tue 29/10									ř.		4 workers		
484 Pending WSD comments 485 Water diversion for Hiu Wa			Tue 29/10/19 Thu 18/6/. Thu 18/6/20 Sat 26/9/2											the state of the state of the		
Designty parties 1.2 /5 P	Task		Summary	1	External Milestone	\$	Inactive Summary	E	Manual Summary Rollu	up	Finish-only	3		itical Split		
Project: portion 1-3 (5 Sept. 2020)			D 101	6	Inactive Task		Manual Task		 Manual Summary Start-only 	Г	 Deadline Critical 	+	Pro	Ogress		
	Milestone 🔶		External Tasks	Republic Street	Inactive Milestone		Duration-only			-	Cinca					
									Page 5	5						

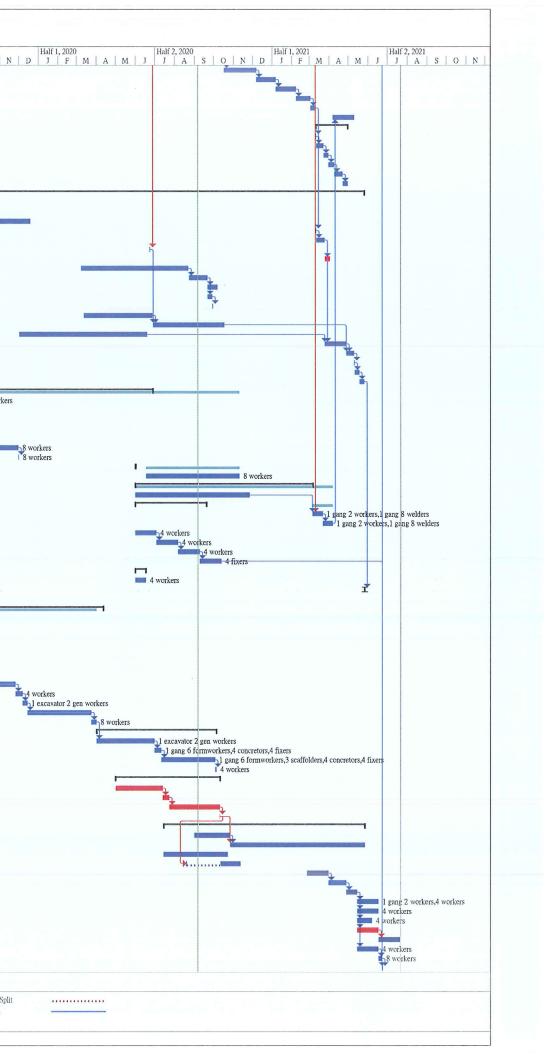


					Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Accepted Programme Section A Portions 1, 2, 3 August 2020
	Task Name	Duration	Start Finish	Predeces	Half 2, 2017 Half 1, 2018 Half 2, 2019 Half 2, 2019 Half 2, 2019
Normal Part Part Part Part Part Part Part Part					
	Everwin terminatiion effect				
All Mark Age Total Age <thtotal age<="" th=""> <thtotal age<="" th=""> <</thtotal></thtotal>	-				
	Deploy GI rig for predrilling				
	Sheetpiling	15 days			
Name Unite Unit Unit Unit	Drill Pre-Bore H-Piles at E2-PC1 (28nos)				
Dimension Dimension <thdimension< th=""> <thdimension< th=""> <thd< td=""><td></td><td></td><td></td><td></td><td></td></thd<></thdimension<></thdimension<>					
Norm Norm <th< td=""><td></td><td></td><td></td><td></td><td></td></th<>					
	RC Pilecap Works				
bit hole Control Contro Contro Control <td< td=""><td>2-PC2 (4nos piles)</td><td></td><td></td><td></td><td></td></td<>	2-PC2 (4nos piles)				
Description Description Description Description Description Notestime Description Description	Deploy GI rig for predrilling				
Bit Index (1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -					I ng 6 gang members
Name of the second se					1 rio 6 cano members
Charge Status Control Status Control Status Control Status Control Status Control Status Control Status Control Status Status Control Status Control Status Control Status Control Status Status Control Status Control Status Control Status Control Status Status Control Status Control Status Control Status Control Status </td <td>Shoring works</td> <td></td> <td></td> <td></td> <td></td>	Shoring works				
Ball Mode Table Mode <thtable mode<="" th=""> Table Mode Table Mod</thtable>	RC Pilecap Works with couplers		Mon 16/12/19 Tue 3/3/2	0 503	
Name Order Name Order Name Order Name Name Order Name Order Name Order Name Name Order Name Name <t< td=""><td>3-PC3 (6nos piles)</td><td></td><td></td><td></td><td></td></t<>	3-PC3 (6nos piles)				
Bit Book	Drill Pre-Bore H-Piles (6 nos)				
Cit Max					
E david field of ended of end	RC Pilecap Works				
Internet Unit of the second of t	RC Abutment Works				
Big Ar Too Big Ar	1 Footing	670 days	Sun 5/8/18 Mon 24/	8/20	
Table 2 To 2 T	Excavation 1.2m and remove C&D				1 excavator 2 gen workers
Internet Defa Veral 2012 bit 1000 bit 10000 bit 1000 bit 1000 bit 10000 bit 1000 bit 1000 bit 10000					
E control test = 1 Proj. Berthall 19 Proj. Bert	Shoring works				
Name Year P (m)	RC concrete footing works	7 days	Sat 9/1/21 Sat 16/1	21 515	
times times <td< td=""><td>backfill</td><td></td><td></td><td></td><td></td></td<>	backfill				
mening m					
maine in a field of a					
Intelling <	Installation of Lighting to covered walkway				
XT D16 or 000 M / 100	Installation of Irrigation Pipe	15 days	Fri 12/3/21 Mon 29/	3/21 521	
Tune can equip the set of the set	I Predrilling works				
Ships sing with with with with with with with with					
Tac field or constrained and					
Torg Wate Needer Source Sourc	Tree felling works				
Skolar - Water Skola	Temp. Work Design Calculation for cut slope and shorin	ng 89 days	Wed 8/7/20 Thu 15/	10/2(527	
RE Plane, with with with with with with with with	Shoring works and excavation	50 days	Thu 15/10/2 Thu 10/	12/2/528	
Hit Park Note 2 0 0 10/27 20 Auge 10 10/27 20 Auge 10 Hit Park Note 2 0 10 10/27 20 Auge 10 10/27 10 10 Lend Soft Park Note 10 1	Piling works				
Under Stat Original Status					
Bitacher 30 dep To 23/00 bit 51/00 1/10 1/10 1/10 1/10 1/10 1/10 1/1	ift Tower E3-ST1				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Basement construction				
Local - 2000 pp - 1/2 and pp	Level to G/F +25mPD	50 days	Sat 25/7/20 Sat 19/9	/20 534	
Lind -3 barby Product Produc	Level +25mPD to +29mPD				
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Line d-2 angle 0 + dLagD 10 dpi Sel 10102 W + 35102 Sel 10 dpi Sel 10102 W + 35102 Sel 10 dpi 10					
i.e.d - J.a.dr b - Si.zer J 0 eg Verified 2007 b - Si.Zer J 0 eg	Level +37.4mPD to +37.4mPD				
Local → Argong → Statup Index Processor Processor <td>Level +41.4mPD to +43.6mPD</td> <td>10 days</td> <td></td> <td></td> <td></td>	Level +41.4mPD to +43.6mPD	10 days			
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Lead + 32 mpb + 53 mpb - 61 mpb + 52 mpb - 10 mpb + 64 mpb + 73 mpb - 10 mpb + 74 mbb + 74 mb	Level +47mPD to +50.8mPD				
Loci - 357 mDP 0 dp Wid2 30/2 Min 1/221 545 Loci - 457 mDP 0 dp Wid2 30/2 Min 1/221 546 Constrained in the field of the field					
Line 1-39/2010 is 60/m172 10 min 12/21	Level +58.2mPD to +59.7mPD				
Contraction from 1 40-65-mP 0 Output point Tue 2020 Set 0000 Set 00000 Set 000000 Set 000000 Set 000000 Set 0000000 Set 0000000000000 Set 000000000000000000000000000000000000	Level +59.7mPD to +63mPD		Mon 1/2/21 Thu 11/.	2/21 546	
Renove over cance 7.4g/s Set 6/2.0 Set 1/2.0 Set 7/2.0	Level +63mPD to +66.5mPD				
Technic of globing and lower 1 Star 100 mol 1 <td></td> <td></td> <td></td> <td></td> <td></td>					
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Infil No arr Currence textee Rock Sloge and Wal (196 day) Sel 27/20 Ved 309/20544 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes 300 Yes 300 Yes 300 Yes 300 Infil No arr Lighting Yes 300 Yes	Dismantling of external and internal scaffolding				
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Handover CMXD Pilling Rox	Installation of bridge bearings	7 days	Mon 1/2/21 Mon 8/2	2/21 546	
Electrical works inside Filler box EMSD and Light filler Colo and wirking 16 49/20 \$81 13/22 159 Colo and wirking Installation of Light filler Status? Status? Status? Status? 10 13/22 159 15 49/2 10 13/22 159 TAC 10 40/9 Te 13/20 253 12 13/22 159 Status? Status? Status? Status? 10 13/20 159 15 13/25 159 12 13/22 159 TAC 10 40/9 Te 13/20 251 12/22 159 Status? St					
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1 Uff tradiation 599 days Mone 14/10/1 The 19/21/4 Randover fit fit and and sociated during to E&M 1 day Sat 34/21	Installation of Light fitting	13 days	Tue 30/3/21 Tue 13/4	4/21 559	
Statury Submission of Lif Design and Materia Use Submission of Lif Design and Lift Design and Materia Use Submission of Lif Design and Lift Design and Li	T&C				
Handborn fit if shaft and associated ducting to EAM 1 day Sta 34/21 Sta 14/23 Sta 14/21 Sta 14/22 St					
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Handwore of Lift structure to E&M Lift subcontraction I day Sat 34/21	E&M works inside Lift Shaft				
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Installation and connection of telemetry components in Pill 4 days CLP cable laying and lead-in into Pillar Box CLP cable laying and lead-in into Pillar Box Su days Su 1/1/20 Thi 3/12/20 CLP Lift Meter Power and Connection 1 day Fri 4/12/20 Fri 4/12/20 570 Fri 3/20 Sat 27/20 Sat 27/20 Fri 3/20 Sat 27/20 Sat 27/20 Handover Sump Pilum al sseciated ducting to E&M 1 day Tue 23/6/20 Sat 27/20 Sat 12/20 571 Fri 3/20 Sat 27/20 Sat 12/20 Sat 12/20 571 Fri 3/20 Sat 12/20 Sat 12/20 Sat 12/20 574.573 Delivery of Lift Installation and Lift Shaft Ventilation installation 30 days Sat 3/4/21 Tub 6/5/2 576.555 EMSD Form LE5 submission Laft installation and Lift Shaft Ventilation installation 30 days Sat 15/5/21 Sin 245/2/20 Sat 15/5/21 578 EMSD Inspection T days Fri 15/5/21 Sin 15/5/21 578 EMSD Inspection T days Sat 15/5/21 Non 245/21579 EMSD Form LE5 submission Laft installation and Lift Shaft Ventilation installation Subgit Non 20/6/20 Sat 18/7/20 574.573 Delivery of Lift installation Subgit Non 20/6/20 Sat 18/7/20 Sat 15/5/21 578 EMSD Form LE5 submission T days Fri 15/5/21 Sin 24/5/21 578 EMSD Inspection T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Subgit Non 20/6/20 Non 21/102 Submission T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion T days Sat 15/5/21 Non 24/5/21 578 EMSD Form LE5 submission Sub Portion Sub Portion					
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CLP Lift Meter Power and Connection 1 day Fri 4/12/20 Fri 4/12/20 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
CLP Lift Meter Installation inside Piller Box 7 days Sat 5/1/2/20 Sat 1/2/1/2/20 Sat 1/2/20 Sa	CLP Lift Meter Power and Connection				
Handover Sump Pit and associated ducting to E&M 1 day Tue 23/6/20 Wed 15/4/20 Wed 15/4/20 Wed 15/4/20 Wed 15/4/20 Wed 15/4/20 Stat 8/7/20 Stat 8/7/20 <td>CLP Lift Meter Installation inside Pillar Box</td> <td>7 days</td> <td>Sat 5/12/20 Sat 12/1</td> <td>2/20 571</td> <td></td>	CLP Lift Meter Installation inside Pillar Box	7 days	Sat 5/12/20 Sat 12/1	2/20 571	
Installation of Sump Pump (by Wing Luen) 18 days Mon 29/6/20 Sat 18:7/20 574,573 Delivery of Lift components to site 180 days Wed 15/4/20 Mon 21/1/20 576,565 Lift installation and Lift Shaft Ventilation installation 00 days Sat 3/4/21 Thu 6/5/20 576,565 EMSD Form LE5 submission 1 day Fri 1/5/21 Sat 15/5/21 Fri 1/5/21 566,575 EMSD Inspection 7 days Sat 15/5/21 Mon 24/5/21 579 Von 24/5/21 579 Use Permit 7 days Sat 15/5/21 Mon 24/5/21 579 Von 24/5/21 579 Use Permit 7 days Sat 17/10/20 Non 10/5/21 580 Von 24/5/21 Non 34/5/21 579 Use Permit 182.5 days Sat 17/10/20 Non 10/5/21 Sto Von 10/5/21 Sto Sortion 13 (5 Sept. 2020) Task Summary External Milestone Manual Task Manual Summary Rellup Finish-only Critical Split Progress	Procurement to delivery of Sump Pump and Panel				
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ortion 1-3 (5 Sept. 2020) Split Project Summary I I Inactive Task Manual Task Danual Summary Deadline + Progress	Task		Summary	1	External Milestone 🚸 Inactive Summary 🕴 Manual Summary Rollup — Finish-only 🕽 Critical Split
Milestone Duration-only Start-only Critical	a second s			8	
	Milestone 🔶		External Tasks		Inactive Milestone Duration-only Start-only Critical
Page 6					



				Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Accepted Programme Section A Portions 1, 2, 3 August 2020
	Task Name	Duration	Start Finish Predece	Half 2, 2017 Half 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 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 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 F M A M J J A S O N D J F M
			Sat 17/10/20 Mon 7/12/20497	
				the second se
	Erection of glazing and louvres	21 days	Mon 8/2/21 Wed 3/3/21 585	
	Handover EMSD Pillar Box and associated ducting to E			
μ μ	Cable and wiring	8 days	Wed 31/3/21 Fri 9/4/21 592	
1 1 </td <td>Handover lift shaft and associated ducting to E&M</td> <td>1 day</td> <td>Thu 11/3/21 Fri 12/3/21 587</td> <td></td>	Handover lift shaft and associated ducting to E&M	1 day	Thu 11/3/21 Fri 12/3/21 587	
0 0				
	Installation and connection of telemetry components in I			
	CLP Lift Meter Installation	7 days	Tue 22/9/20 Tue 29/9/20 605	이 이 가지 않는 것 같아요. 이 것 같아요. 이 것 같아요. 이 같아요. 이 것 같아.
μαλι μη				
But we	Installation of Sump Pump (by Wing Luen)			
	Delivery of Lift components to site		Mon 2/12/19 Fri 19/6/20	
bit Note Note: in Note:				
Lut we	EMSD Form LE5 submission	1 day	Mon 10/5/21 Tue 11/5/21 613	
Description Description 0.000 yr				
	Drainage and Landscape works at Hiu Ming Street	433.5 day		
μουροιαρία τη Διαίτη Διάτη τη διαίτη διαίτη τη διαίτη τη διαίτη τη διαίτη τη διαίτη τη διαίτ	Decoration and Finishings Works at Hiu Ming Street	190 days	Fri 1/3/19 Mon 30/9/19	8 workers
mit wirk wirk wirk wirk wirk wirk wirk wirk				
bit 0 - Signed 0 - Signe 0 - Signe	Road Works Advice	14 days	Wed 18/9/19 Fri 4/10/19 620	
Gued Tols 5: 10000 1000 1000				S workers
Number Schwart 199 data Park Strate Schwart 199 data Park Strate Schwart Strate Sc	General Tidy Up		Sat 30/11/19 Sat 30/11/19 623	8 workers
Name Hole Streeker LS-11 P3 Point P3 P	Drainage Hiu Kwong Street PMI 045	1 day	Mon 1/6/20 Mon 1/6/20	
Bit Starting and Dialogy of The isola Starting in the starting				
Construction of Model Diskog Positive Set 15:10 m (4 He) Set 62:10 m (22:2) 11:6 (4:1) Set 62:10 m (22:2) 11:6 (4:1) Construction of Model Diskog Positive Set 15:10 m (4 He) Set 62:10 m (22:0) 11:6 (4:1) Set 62:10 m (22:0) 11:6 (4:1) Disk Michael Origination of Positive Set 10:10 m (4:1) Set 62:10 m (22:0) 11:6 (4:1) Set 62:10 m (22:0) 11:6 (4:1) Disk Michael Origination of Positive Set 10:10 m (22:0) Set 62:10 m (22:0) 11:6 (4:1) Set 62:10 m (22:0) 11:6 (4:1) Disk Michael Origination of Positive Set 10:10 m (22:0) Set 62:10 m (22:0) 11:6 (4:1) Set 62:10 m (22:0) 11:6 (4:1) Disk Michael Origination O	Fabrication and Delivery of Fabricated Steelworks	160 days	Mon 1/6/20 Thu 26/11/20	
Constructure Section 21-571 104 Mater Sector 9 Mater Sector <t< td=""><td></td><td></td><td></td><td>F C C C C C C C C C C C C C C C C C C C</td></t<>				F C C C C C C C C C C C C C C C C C C C
In binding of yanges and planes in the name weak path in the second state of the secon	Construction of steel Roof E3-ST1 to E3-P1 Pier	14 days	Mon 22/3/21 Tue 6/4/21 630	
Includium of regions used to move the lower B is not a lo				
In sent server in the server prime weight of the server in				
Turney Phylicia 10 dy No. 166200 Wei 110820 Turney Phylicia 1 dy No. 16620 Wei 110820 Mediage Statistical and Statistical a	Installation of irrigation Pipe and water point	30 days	Wed 9/9/20 Tue 13/10/2(634	
Handber (Freider) I dag Verd 266/2171 275/21 06 Propulsition of Verdinal Databover (Foreinal Databover (Foreina Databover (Foreinal D				
Image: Indicative of Pacting 3 1 dy Frag: 11/13 Frag: 12/10/18 Frag: 12/18 Frag: 12/18/18 Fra: 12/18/18 Frag: 12/18/18				
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Relevance of Crossing and Allow's ideal 10 dogs Mod 25/17/16 16 12/2 9 (48) Triaf Pri at 22-76 for U 7 dogs Sin 14/21/9 11/2 - 24/20.06 0.0 Vervision of CP Imp past 7 dogs Sin 14/21/9 11/2 - 24/20.06 0.0 Vervision of CP Imp past 10 dogs Tow 32.06 0.0 Tow 32.00 0.00 0.0 Controllice of CP-27 10 dogs Tow 32.00 0.00 0.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 17/20.0 Sin 17/20.0 Controllice of CP-27 10 dogs Sin 10/20.00 Sin 10/20.00 Controllice of CP-27 10 dogs Sin 10/20.00 Sin 10/20.00 Controllice of CP-27 10 dogs The 27/10.02/11he 27/20.00 Sin 10/20.00				
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Diversion of CLP lump post 7 days 1 re-24/320 We1 14/20 61 Construction of CP 14/3 We1 14/20 Tus 10/020 Mos 10/020 64 Sock excavation with horing for E2+73 E1 days We1 14/20 Tus 10/020 641 Construction of Column for E2+73 To days 3 E11/1/20 Su1 11/20 643 Construction of Column for E2+73 To days 3 E11/1/20 Su1 11/20 Su1 10/20 645 Finaldation of Develop for E2+73 To days 3 E11/1/20 Su1 11/20 Su1 10/20 645 Finaldation of Develop for E2+73 To days 3 E11/1/20 Su1 10/20 645 Finaldation of Develop for E2+74 To days 1 Fin2/20 Mon 10/20 666 Finaldation of Develop for E2+74 To days 1 Fin2/20 Tus 10/20 Fin2/20 Final Fin				1 excavator 2 gen workers
Back according for E2-13 B1 days Well 1/4/20 Tus 30/620 662 Construction of poleming E2-12 10 days Well 1/4/20 Tus 30/620 662 Construction of poleming E2-12 10 days Well 1/4/20 Tus 30/620 663 Strabilition of Desting E2-12 10 days Well 1/7/20 Str 11/7/20 644 Construction of poleming E2-12 10 days Well 1/7/20 Tus 11/7/20 644 Construction of pole foring 62-12 10 days Well 1/7/20 Tus 27/20 649 Construction of pole foring 62-12 10 days Well 1/7/20 Tus 27/20 649 Construction of pole foring 62-12 10 days Stra1010/20 664 Stra101/20 Tus 27/20 649 Stra101/20 Tus 27/20 649 Construction of pole foring 62-24 10 days Stra101/20 Tus 27/20 649 Stra101/20 Tus 27/20 50 Stra101/20 Tus 27/20 646 Stra101/20 Tus 27/20 646 Off sie Eabrication of Stead Eack trass between E2-24 To 10 days Tus 20/20 Mar 17/20 Tus 27/20 646 Stra101/20 Stra11/20 Stra11	Diversion of CLP lamp post	7 days	Tue 24/3/20 Wed 1/4/20 651	8 workers
Construction of pide forming E2-F3 10 days Well 1/720 Stal 110/20 654 Construction of columns for E2-71 1 days Stal 310/20 Mon 510/2006 655 Installation of borning at E2-F3 and Eridge Deck 1 days Stal 310/20 Mon 510/2006 65 Rock Excavation with Adming for construction of E2-F4 (Days Stal 10/20 Mon 137/20 Bay 10/20 Mon 16/20 Bay 10/20 Bay 16/20 Bay 16				
Construction of column for E2-F3 75 days Sat 11/1/20 Sat 31/0/20 Sat 31/0/20 Sat 10/0/20 Construction of E2-F4 166 days Fi 15/20 Sat 10/0/20 Sat 10/0/20 Construction of pad foring of E2-F4 10 days Main 13/7/27/100-21/0/20 Sat 10/0/20 Construction of pad foring of E2-F4 10 days Main 13/7/27/100-21/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Sat for barring 12/37 Sat 10/0/20 Sat 10/0/20 Sat 10/0/20 Off Sit Fabrication of Set Levis town E2-F1 10 days Sat 10/21/20 Sat 10/21/20 Sat for barring town Sat 11/1/10 (Sat Sat 10/1/20/21/20/				
Cambra of B2P Idé av Fil 1520 Kn 11720 The S1720 Kn 11720 The S17200	Construction of column for E2-F3	75 days	Sat 11/7/20 Sat 3/10/20 655	
Back Exavation with solving for construction of E2-44 64 also Non 137/20 Not 137/20 Construction of pole foring fE2-54 10 days Non 137/20 Not 101/20 660 Substitution of Stel Z-53 and Bridge Deck 10 days Fri 247/20 Sat 101/20 6660 Substitution of Stel Z-53 days 101/20 Not 101/20 100 101/20 Not 101/20 100 Off sice Endination of Stel Z-52 days Weil StrZ00 Tra 27/521 (646,662 100/20 Not 101/20 Not 101/20 100 Off sice Endination of Stel Z-52 los connec 30 days Weil StrZ01 Tra 27/521 (646,662 100/10 Not 560 History 100/20 Not 12/11/20 (62 Off sice Endination of Stel Z-52 los connec 30 days Weil StrZ01 Tra 27/521 (646,662 100/10 Not 560 History 100/20 Not 12/11/20 (62 Off sice Endination of Stel Z-52 los connec 30 days Weil StrZ01 Par 27/521 (646,662 100/20 Not 28/20 Tra 12/11/20 (62 Off sice Endination of Stel Z-60 History 12/11/20 (62 Fri 26/21 Weil 28/201 (60 Weil 28/20 Tra 12/11/20 (62 Proparation works and Lifting works for the/for from E2-3 U days Sat 15/521 Thu 17/621 (60 Sat 15/521 Thu 17/621 (60 Stereeding and paring blocks for the/for from E2-3 U days Sat 15/521 Thu 17/621 (60 Sat 15/521 Thu 17/621 (60 Trenching works for connection of days Sat 15/521 Thu 17/621 (60 Sat 15/521 Thu 17/621 (60 Store off and paring blocks for				
Construction of columns for E2-P3 and Bridge Deck 70 days Fit 247/20 Sait 10/10/20 6/0 Bristallation of bearing 1day Sait 10/10/20 for Tue 19/20 Mon Off site Fabrication of Steel deck truss between E2-1190 days Tue 217/20 for Fit 23/10/20 Fit 23/10/20 Off site Fabrication of Steel deck truss between E2-12 to 90 days Tue 217/20 for 66.662 Wed 9/82/20 Mon Wed 9/82/20 Mon Off site Fabrication of Steel deck truss between E2-19 to 300 days Fit 23/10/20 Hu 217/21 for 64.662 Wed 9/82/20 Hu 217/21 for 64.662 Off site Fabrication of Steel deck truss between E2-19 to 300 days Fit 23/10/20 Hu 217/21 for 64.662 Wed 9/82/20 Hu 217/21 for 64.662 Off site Fabrication of Steel deck truss between E2-19 to 300 days Fit 23/10/20 Hu 217/21 for 64.662 Wed 9/82/20 Hu 21/12/1662 Off site Fabrication of Steel deck truss between E2-19 to 300 days Fit 53/52 Hu 10/70/21 for 64.662 Wed 9/82/20 Hu 21/12/662 Off site Fabrication of Steel deck truss between E2-22 to 90 days Sait 15/52 Hu 10/70/21 for 64.662 Wed 9/82/20 Hu 21/12/662 Steel constructure on bridge from E2-11 to 124-95 Sait 55/21 Hu 17/62/1 for 64.662 Sait 55/21 Hu 17/62/1 for 64.664.664.664.664.664.664.664.664.664.	Rock Excavation with shoring for construction of E2-F4	4 65 days	Fri 1/5/20 Mon 13/7/20	
Installation of bearing 1 day Sa 1010/20 Sat 101/020 6d1 See floothidge works 28.25 5 504 We1 5/700 Off site Fabrication of Steel deck trass between E2-L1 150 days Tue 2/10/2/Thu 2/15/21 6d-6d-6d Off site Fabrication of Steel deck trass between E2-L1 190 days Tue 2/10/2/Thu 2/15/21 6d-6d-6d Off site Fabrication of Steel deck trass between E2-L1 190 days Wed 19/8/20/Thu 12/11/2662 Off site Fabrication of Steel deck trass between E2-L2 10 30 days Wed 19/8/20/Thu 12/11/2662 Off site Fabrication of Steel deck trass between E2-L2 10 30 days Wed 19/8/20/Thu 12/11/2662 Off site Fabrication of Steel deck trass between E2-L2 10 30 days Wed 19/8/20/Thu 12/11/2662 Off site Fabrication of Steel deck trass between E2-L2 10 30 days Wed 19/8/20/Thu 12/11/2662 Off site Fabrication of Steel deck trass between E2-L2 10 30 days Wed 19/8/20/Thu 12/10/662 Steeding and paving blocks for the tras between E2-L1 to 13 days Wed 28/21 Ed E4/21 6d Roof installation and lighting works of trading from E2-L1 To 16 2/P3 days Sat 15/521 Thu 17/621 670 Steeding for me2-L1 to 12/Th 2/1 FAP Sat 15/521 Thu 17/621 670 Toehular handmal malphaner on bridge form E2-L3 thu 2/L2 (1/L2/L2/L2/L2/L2/L2/L2/L2/L2/L2/L2/L2/L2/				
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Preparation works and Lifting of sted truss between E2-P2 to 90 days Tue 27/10/2CT hu 27/s/21 664,662 Off site Fabrication of Steel deck truss between E2-P3 to come: 30 days Wed P7/82/0T hu 12/s/21 664,662 Off site Fabrication of Steel deck truss between E2-P3 to come: 30 days Wed 19/82/0T hu 12/s/21 (2662) Off site Fabrication of Steel deck truss between E2-P3 to come: 30 days Fri 25/221 Wed 31/321 Preparation works and Lifting of steel truss between E2-P3 to come: 30 days Wed 19/82/0T hu 12/s/21 (2662) Off site Fabrication of Steel deck truss between E2-P3 to some: 30 days Fri 25/21 T hu 17/621 670 Exerciding and paving blocks for the bridge from E2-L11 to E2-P3 to solution and lighting rome E2-L10 to 30 days Sat 15/5/21 T hu 17/621 670 Electrical installing and lighting rom E2-L11 to E2-P2 days Sat 15/5/21 T hu 17/621 670 Tuebulty maker for installing and lighting rom E2-L11 to E2-P2 days Sat 15/5/21 T hu 17/621 670 Torenching works for connection 30 days Fri 18/621 Wed 21/721674 Water meter box and water point connection 30 days Sat 15/5/21 T hu 17/621 670 Handover Portion 3 I day Wed 23/6/21 Thu 24/6/21 393,635 Tuebulty mode for meter box and water point connection 30 days Fit 18/6/21 Wed 23/6/21 frie Handover Portion 3 I day Wed 23/6/21 Thu 24/6/21 393,635 </td <td>Steel footbridge works</td> <td>282.75 days</td> <td>s Wed 15/7/20 Thu 27/5/21</td> <td></td>	Steel footbridge works	282.75 days	s Wed 15/7/20 Thu 27/5/21	
Of site Fabrication of Steel deck truss between E2-P1 20 90 days Wed Fri 23/10/20 Off site Fabrication of Steel deck truss between E2-P1 10 30 days Fri 26/2.21 Wed 31/3/21 Preparation works and Lifting of steel deck truss between E2-P2 5 days Wed 31/3/21 Wed 31/3/21 Preparation works and Lifting of steel deck truss between E2-P2 5 days Wed 31/3/21 Wed 31/3/21 Preparation works and Lifting of steel deck truss between E2-P2 5 days Wed 31/3/21 Wed 31/3/21 Sereeding and paving blocks for the bridge from E2-11 to E2-P3 of days Sat1 55/21 Thu 17/6/21 Sereeding and paving blocks for the bridge from E2-11 to E2-P3 of days Sat1 15/21 Thu 17/6/21 Tabular handrail and planer on bridge from E2-11 to E2-P2 0 days Sat1 15/21 Thu 17/6/21 Store of the bridge from E2-11 to E2-P2 0 days Sat1 15/21 Thu 17/6/21 Store of the bridge from E2-11 to E2-P2 0 days Sat1 15/21 Thu 17/6/21 Store of the bridge from E2-11 to E2-P2 0 days Sat1 15/21 Thu 17/6/21 Store of the bridge from E2-11 to E2-P2 0 days Sat 15/21 Thu 17/6/21 For Store of the bridge from E2-11 to E2-P2 0 days Sat 15/21 Thu 17/6/21 For General Tidy UP for Porion J 30 days <				
Off site Fabrication of Steel deck truss between E2-P1 to 130 days Fri 26/2/1 Wed 31/3/21 Preparation works and Lifting of steel truss between E2-P2 55 days Wed 31/3/21 Wed 28/4/21 668 Roof installation on bridge from E2-L11 to 12-P3 Bidsys Screeding and paving blocks for the bridge from E2-L11 to 130 days Sat 15/5/21 Thu 17/6/21 670 Screeding and paving blocks for the bridge from E2-L10 to E2-P3 days Sat 15/5/21 Thu 17/6/21 670 Tobular handmilland planter on bridge from E2-L10 to E2-P2 days Sat 15/5/21 Thu 17/6/21 670 150mm dia storm drain pipe across Hiu Kwong Street 30 days Sat 15/5/21 Thu 17/6/21 670 150mm dia storm drain pipe across Hiu Kwong Street 30 days Sat 15/5/21 Thu 17/6/21 670 160mr dia storm drain pipe across Hiu Kwong Street 30 days Sat 15/5/21 Thu 17/6/21 670 160mr dia storm drain pipe across Hiu Kwong Street 30 days Sat 15/5/21 Thu 17/6/21 670 17menching works for connection of existing water connection 30 days Sat 15/5/21 Thu 17/6/21 670 General Tidy Up for Portion 3 5 days Fri 18/6/21 Wed 23/6/21 Thu 24/6/21 303.635 Handover Portion 3 1 day Wed 33/3/32	Off site Fabrication of Steel deck truss between E2-P2 t	o 90 days	Wed Fri 23/10/20	
Preparation works and Lifting of steel truss between E2-P 25 days Wed 31/3/21 Wed 28/4/21 668 Roof installation of bridge from E2-LT1 to E2-P3 15 days Wed 28/4/21 561 15/21 Screeding and paving blocks for the bridge from E2-LT1 to 130 days Sat 15/2/21 Thu 17/6/21 670 Electrical installation and lighting works for bridge from E2-LT1 to E2-P2 00 days Sat 15/2/21 Thu 17/6/21 670 Tubular handrail and planter on bridge from E2-LT1 to E2-P2 00 days Sat 15/2/21 Mon 7/6/21 670 Tornching works for connection of existing water connection of 30 days Sat 15/2/21 Thu 17/6/21 670 Trenching works for Orente of a days Sat 15/2/21 Thu 17/6/21 670 General Tidy Up for Portion 3 5 days Fri 18/6/21 Wed 23/6/21/6/6 Handover Portion 3 1 day Wed 23/6/21 Fri 18/6/21 Wed 23/6/21 Task Summary External Milestone Inactive Summary Manual Summary Rellup Finish-only I Critical Split				
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Water meter box and water point connection 30 days Sat 15/5/21 Thu 17.6/21 670 General Tidy Up for Portion 3 5 days Fri 18/6/21 Wed 23/6/21 Fro Handover Portion 3 1 day Wed 23/6/21 Thu 24.6/21 393.635 Fri 18/6/21 Task Summary External Milestone Inactive Summary Image: Manual Summary Rollup Finish-only Image: Critical Split				
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Task Summary External Milestone \diamond Inactive Summary E Manual Summary Rollup Finish-only] Critical Split	General Tidy Up for Portion 3	5 days	Fri 18/6/21 Wed 23/6/21 676	teres and a set of the
	Handover Portion 3	1 day	Wed 23/6/21 Thu 24/6/21 393,635	
portion 1-3 (Sent 7070) p.v.		Carlos Carlo	Summary	
ortion 1-5 (S Sept. 2020) Split Project Summary I I Inactive Task Manual Task Manual Task Data Manual Summary Deadline + Progress				1 Inactive Task Manual Task Manual Summary Deadline Progress

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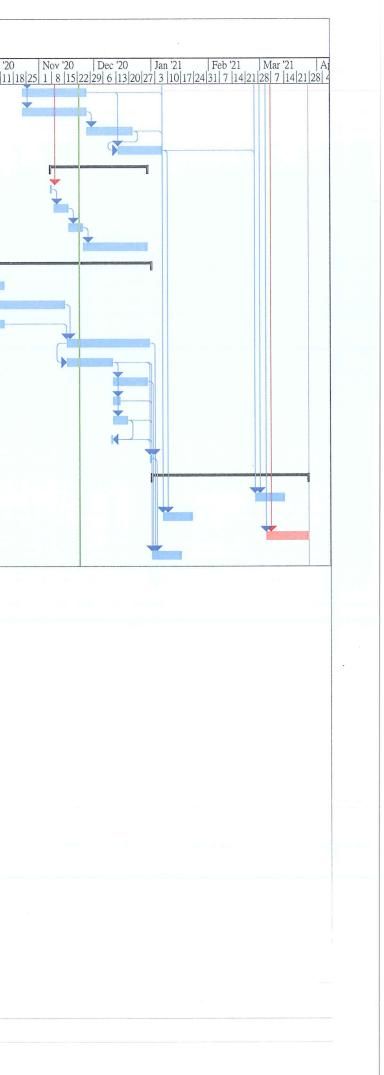
					tober 2020)	May '20 Jun '20 Jul '20 Aug '20 Sen '20 O
) [Fask Name	Duration	Start	Finish	Predecessors	May '20 Jun '20 Jul '20 Aug '20 Sep '20 O 26 3 10172431 7 142128 5 121926 2 9 162330 6 132027
1		074 Jan	Tue 12/5/20	Fri 26/3/21		
	Portion 6 overall construction programme for outstanding	274 days		Fri 22/5/20		
3	Foundation construction	9 days	Tue 12/5/20			12/5 →
4	Completed E12 Footing construction	0 days	Tue 12/5/20	Tue 12/5/20		♦ 22/5
5	Completed BBI Footing construction	0 days	Fri 22/5/20	Fri 22/5/20		
6	CLP & tel-com Cable diversion	111 days	Tue 12/5/20	Thu 17/9/20		
7	Excavation of cable trench	6 days	Tue 12/5/20	Mon 18/5/20	7	
8	CLP cable diversion (1st phase)	20 days	Tue 19/5/20	Wed 10/6/20	7	
9	Site Clearance for CLP	4 days	Thu 2/7/20	Mon 6/7/20	16	
10	CLP cable diversion (2nd phase)	7 days	Tue 7/7/20	Tue 14/7/20	8,16,9	
11	CNP issued by EPD for night cable sewping	1 day	Fri 10/7/20	Fri 10/7/20	10.11	
12	CLP cable diversion (3rd phase)	24 days	Wed 15/7/20	Tue 11/8/20	10,11	
13	Telecom cable diversion (with drawpit construction)	25 days	Wed 12/8/20	Wed 9/9/20	12	
14	Backfilling of cable trench	7 days	Thu 10/9/20	Thu 17/9/20	13	
15	E12 Lift Tower construction	221 days	Mon 8/6/20	Fri 19/2/21		
16	E12 Lift tower construction (1st phase)	21 days	Mon 8/6/20	Wed 1/7/20	4FS+23 days	
17	Erection of temporary scaffolding working platform	60 days	Thu 2/7/20	Wed 9/9/20	16	
18	E12 Lift tower construction (2nd phase)	10 days	Thu 10/9/20	Mon 21/9/20	16,12,17	
19	E12 Lift tower construction (3rd phase)	20 days	Tue 22/9/20	Wed 14/10/20	18	
20	E12 Lift tower construction (4th phase)	20 days	Thu 15/10/20	Fri 6/11/20	19	
21	E12 Lift tower louvre, glazing and E&M installation	35 days	Sat 7/11/20	Thu 17/12/20	16,18,19,20	
22	Finishing Erection of E12 Lift Tower	30 days	Sat 7/11/20	Fri 11/12/20	20	
23	Construction of irrigation system	14 days	Sat 7/11/20	Mon 23/11/20	20	
24	Relocation of existing fire hydrant	7 days	Tue 24/11/20	Tue 1/12/20	23	
25	E12 Lift installation	60 days	Sat 7/11/20	Fri 15/1/21	20	
26	E12 telemetry civil provision & E&M work	30 days	Sat 16/1/21	Fri 19/2/21	25	
27	E12 Staircase & Footbridge construction	143 days		Wed 3/3/21		
28	Rock Excavation of sump pit	10 days	Fri 18/9/20	Tue 29/9/20	13,14	
29	Construction of sump pit	20 days	Wed 30/9/20	Thu 22/10/20	28	
30	Installation of E&M equipments of sump pit	14 days	Fri 23/10/20	Sat 7/11/20	29	
31	E12 Staircase construction	21 days	Sat 7/11/20	Tue 1/12/20	20	
32	E12 Footbridge Construction	21 days	Wed 2/12/20	Fri 25/12/20	31	
33	Installation of bearing & movement joint	7 days	Sat 26/12/20	Sat 2/1/21	31,32	
34	E12 Footbridge Steel Structure Installation (steel roof & fall	21 days	Mon 4/1/21	Wed 27/1/21		
35	Pilliar box construction	14 days	Wed 2/12/20	Thu 17/12/20		
36		25 days	Thu 28/1/21	Thu 25/2/21	34,35	
37	E12 footbridge E&M installation	30 days	Thu 28/1/21	Wed 3/3/21	34	
38	Finishing Erection of E12 Footbridge & staircase	166 days		Fri 20/11/20		
39	RWE12 Retaining Wall DN600 DI pipe installation (heading method)	90 days	Tue 12/5/20	Mon 24/8/20		L)
40		16 days	Tue 25/8/20	Fri 11/9/20	39	
	Lisance with EPD for TTA and application of RA	30 days	Sat 12/9/20	Fri 16/10/20	39,40	
41	DN600 DI pipe installation (trench excavation method)	30 days	Tue 12/5/20	Mon 15/6/20		
42	Construction of retaining wall RWE12 bay 14	21 days	Wed 23/9/20	Fri 16/10/20	39FF,41FF	
43	Construction of retaining wall RWE12 bay 13		Sat 17/10/20	Wed 21/10/20		
44	Rock slope stabilization survey	4 days	Thu 22/10/20	Fri 6/11/20	42,43,44	
45	Rock slope stabilization work for RWE 12	14 days	Sat 17/10/20	Fri 20/11/20	42,43,44	
	Erection of finishing of RWE12 & EPD road			Wed 6/1/21		
	BBI-SB Covered walkway construction	95 days	Fri 18/9/20		10 5 1 /	
+0	BBI Steel Structure Installation	30 days	Fri 18/9/20	Thu 22/10/20	10,0,14	

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					ne for section D Portic ctober 2020)	
D	Task Name	Duration	Start	Finish	Predecessors	May '20 Jun '20 Jul '20 Aug '20 Sep '20 Oct '20 26 3 10 17 24 31 7 14 21 28 5 12 19 26 2 9 16 23 30 6 6 13 20 27 4 11
49	BBI PMMA Installation	30 days	Fri 23/10/20	Thu 26/11/20	48	
50	Stormwater drainage system (footpath)	30 days	Fri 23/10/20	Thu 26/11/20	48	
51	Paving block for footway	21 days	Fri 27/11/20	Mon 21/12/20	50	
52	BBI E&M installation	21 days	Mon 14/12/20	Wed 6/1/21	49,51FS-7 days	
53	Construction of temporary ramp	45 days	Sat 7/11/20	Tue 29/12/20		
54	Construction of U-channel	1 day	Sat 7/11/20	Sat 7/11/20	20	
55	Construction of concrete footing	7 days	Mon 9/11/20	Mon 16/11/20	54	
56	Construction of column	7 days	Tue 17/11/20	Tue 24/11/20	55	
57	Construction of steel deck	30 days	Wed 25/11/20	Tue 29/12/20	56	
58	Road work	90 days	Fri 18/9/20	Thu 31/12/20		
59	Central divider construction (with u-channel)	21 days	Fri 18/9/20	Mon 12/10/20	14	
60	Stormwater drainage system (road section)	50 days	Fri 18/9/20	Sat 14/11/20	14	
61	Sewerage drainage system	21 days	Fri 18/9/20	Mon 12/10/20	14	
62	Road kerb erection	39 days	Mon 16/11/20	Wed 30/12/20	60,61	
63	Concrete road pavement	22 days	Mon 16/11/20	Thu 10/12/20	62SS	
64	Beam barrier installation	16 days	Fri 11/12/20	Tue 29/12/20	63	
65	Roadmarking erection	3 days	Fri 11/12/20	Mon 14/12/20	63	
66	Traffic sign erection	7 days	Fri 11/12/20	Fri 18/12/20	63	
67	ETC & MTC system inspection & testing	1 day	Thu 10/12/20	Thu 10/12/20	66FF-7 days	
68	Lane conversion of Lane 1 & 2	1 day	Thu 31/12/20	Thu 31/12/20	62,64,63,67	
69	Test & completion	73 days	Fri 1/1/21	Fri 26/3/21		
70	E&M T&C and use Permit	14 days	Fri 26/2/21	Sat 13/3/21	25,36,52	
71	BBI-SB T&C	14 days	Thu 7/1/21	Fri 22/1/21	48,49,51,52	
72	E12 Lift tower and staircase T&C	20 days	Thu 4/3/21	Fri 26/3/21	25,37,46,30,44,45	5,
73	Road Work T&C	14 days	Fri 1/1/21	Sat 16/1/21	63,62,64,65,66,68	3,

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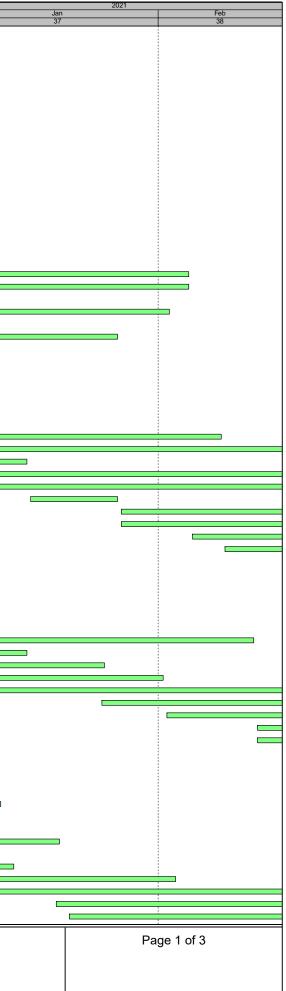




Contract 3 (NE/2017/03)

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	Activity Name	Duration	Start	Finish	2020 Nov Dec
2017/03 - ARQ PHASE 2	2A - Monthly Programme Update (202010)-1_201112	966	23-May-19 A	12-Jan-22	35 36
oad Improvement Works		507	06-Apr-20 A	18-Dec-21	
Construction Works		507	06-Apr-20 A	18-Dec-21	
CON10231	Existing watermain diversion (by WSD)	24	06-Apr-20 A	06-Nov-20	
CON12350	Construct subway wall and soffit (KS27 west side, bay 1)	90	19-Aug-20 A	23-Oct-20	
CON10254D	Protection works to existing 11kV cable (by CLP)	26	22-Aug-20 A	21-Oct-20	p
CON11576	Construct NB RC wall (FE1-F4b to FE1-F7b, 57m, 0.85m/d, 1 team)	66	11-Sep-20 A	07-Dec-20	
CON10630A	(NCE081) Inclement weather (21/8/2020 to 20/9/2020) on RIW1 RWC2	19	05-Oct-20 A	27-Oct-20	
CON11318C	Design review & preparation of TTA for CT5 work in parallel for SR2 works	12	15-Oct-20 A	29-Oct-20	
CON11318D	Further pre-drill works on CT5	18	15-Oct-20 A	05-Nov-20	
CON11152B	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW1 RWC2	6	15-Oct-20 A	21-Oct-20	р
CON10254F	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW1 RWC2	6 23	17-Oct-20 A	24-Oct-20	
CON10728F CON11170	Site formation works (RWC2 Type 3a & 4) Utilities works, drainage works for slip road 2_stage 3	60	21-Oct-20 22-Oct-20	17-Nov-20 04-Jan-21	
CON11210	Utilities works, drainage works for slip road 2 _stage 3	18	22-Oct-20	12-Nov-20	
CON12350A	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW1 KS27	6	22-Oct-20	31-Oct-20	
CON10270	ELS to bore pile pile cap (RWC2 type 5)	59	27-Oct-20	06-Jan-21	
CON10630B	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW1 RWC2	6	28-Oct-20	03-Nov-20	
CON12352	Construct subway footing (KS27 west side, bay 3)	6	02-Nov-20	07-Nov-20	
CON10650	Construct RW wall (RWC2 type 1 a & 1)	78	04-Nov-20	05-Feb-21	
CON10652	Construct RW footing (RWC2 type 2)	78	04-Nov-20	05-Feb-21	
CON11318E	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW1 NB	6	06-Nov-20	12-Nov-20	
CON10310	Construct RW footing (RWC2 type 4, 6, 7, 8)	72	07-Nov-20	02-Feb-21	
CON12354	Construct subway wall and soffit (KS27 west side, bay 3)	30	09-Nov-20	12-Dec-20	
CON11190	Road works for slip road 2 _stage 3	60	13-Nov-20	25-Jan-21	
CON11230	Road works for slip road 2 _stage 4	18	13-Nov-20	03-Dec-20	
CON11318F	TTA application for TMLG approval	18	13-Nov-20	03-Dec-20	
CON10728G	Remove platform no. 1 haul road	5	18-Nov-20	23-Nov-20	
CON10728H	Temporary diversion - Stage 2	6	24-Nov-20	30-Nov-20	
CON10730	Moblization works for socket H-pile works (RWC2 type 3)	12	01-Dec-20	14-Dec-20	
CON11270	Upgrading works on existing slip road 2 stage 5	18	04-Dec-20	24-Dec-20	
CON11318G CON12356	RA application, TTA setup & Trial run	12 48	04-Dec-20 14-Dec-20	17-Dec-20 10-Feb-21	
CON12356 CON10750	Existing drainage & sewer modification works (west side) Pre-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr	300	14-Dec-20 15-Dec-20	10-Feb-21 18-Dec-21	
CON10730	Pre-drill works on FE1	18	18-Dec-20	11-Jan-21	
CON10370	Construct RW wall (RWC2 type 4, 6, 7, 8)	72	06-Jan-21	07-Apr-21	
CON10390	Construct pile cap (RWC2 type 5)	90	07-Jan-21	29-Apr-21	
CON11506	Erect piling platform on FE1	12	12-Jan-21	25-Jan-21	
CON11510	Construct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team)	60	26-Jan-21	13-Apr-21	
CON11326	Site establishment for piling works	27	26-Jan-21	01-Mar-21	
CON10654	Construct RW wall (RWC2 type 2)	78	06-Feb-21	17-May-21	
CON12358	Construct subway footing (KS27 west side, bay 2)	6	11-Feb-21	20-Feb-21	
load Improvement Works	s Location 2 (RIW2)	274	14-Aug-20 A	21-Jun-21	
Construction Works in Slo	ope C3 (Portion B)	274	14-Aug-20 A	21-Jun-21	
CON20774	Soil nail works at RW3b	90	14-Aug-20 A	19-Nov-20	
CON20650	Install sheet pile to RW bay 9 to bay 13	18	14-Oct-20 A	04-Nov-20	
CON20950	Construct RW3Cd base (L=17m, 3wk/pour, 2pour)	36	14-Oct-20 A	25-Nov-20	
CON20670	ELS to RW bay 9 to bay 13 formation	41	05-Nov-20	22-Dec-20	
CON20170	Fabrication of NB steel post - along slope side	90	18-Nov-20	15-Feb-21	
CON20910	Construct RW bay 14 to bay 16 base (L=19m)	42	20-Nov-20	11-Jan-21	
CON20970	Construct RW3Cd wall (L=17m, 4wk/pour, 2pour)	48	26-Nov-20	23-Jan-21	
CON20930	Construct RW bay 14 to bay 16 wall (L=19m)	42	11-Dec-20	01-Feb-21	
CON20790	Construct RW bay 9 to bay 13 base (L=30m)	66	23-Dec-20	16-Mar-21	
CON20810	Construct RW bay 9 to bay 13 wall (L=30m)	66	23-Jan-21	17-Apr-21	
CON21010	Utilities & drainage works at Portion B (bay 3 to bay 8)	30	02-Feb-21	11-Mar-21	
CON20190	Steel post along slope side delivery	12	16-Feb-21	27-Feb-21	
CON20290	Fabrication of NB acoustic panels - along slope side	126	16-Feb-21	21-Jun-21	
	Enclosure SE2 (Portion C)	137	21-Oct-20	10-Apr-21	
CON21958 CON21650E	Utilities diversion (NCETTRA)) Inclement weather (21/0/2020 to 20/10/2020) on RIW/2 NR	24 6	21-Oct-20 21-Oct-20	18-Nov-20 28-Oct-20	
CON21650E CON21652A	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW2 NB Protect existing utilities	30	21-Oct-20 29-Oct-20	02-Dec-20	
CON21652A CON21650D	Construct piling fdn (SE2 Bay4 to Bay12)	30 55	29-Oct-20 02-Nov-20	02-Dec-20 07-Jan-21	
CON21030D	Received & studing on CE259	6	02-Nov-20	07-Jan-21	
CON22730A	JV prepare revise design of RW1 for CT4 & SE2 due to CE259	18	02-Nov-20	28-Nov-20	
CON21960	ELS for SE2 (Bay 13 to Bay 21)	48	19-Nov-20	16-Jan-21	
CON22730C	ICE review & cert revise design of RW1 for CT4 & SE2 due to CE259	18	30-Nov-20	19-Dec-20	
CON21652B	Construct working platform for piling works	30	03-Dec-20	09-Jan-21	
CON22730D	PM review & acceptance revise design of RW1 for CT4 & SE2 due to CE259	36	21-Dec-20	03-Feb-21	
CON21670	Install sheet piles (CT4, SE2 Bay4 to Bay12; 230m 5m/d, 1 team)	48	06-Jan-21	05-Mar-21	1
	Excavate & install lateral support (CT4, SE2 Bay4 to Bay12; L=110m)	48	16-Jan-21	16-Mar-21	
CON21690	Construct piling platform SE2 (Bay 13 to Bay 21)	30	18-Jan-21	24-Feb-21	
CON21690 CON21962				_	
					Anderson Road Quarry Site - Investigation Design & Construction
ON21962	rk Developm				Anderson Road Quarry Site - Investigation Design & Construction Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2



ty ID CON21710	Activity Name	Duration	Start	Finish	2020
CON21710					Nov Dec 35 36
001121710	Construct NB pile cap (CT4, SE2 Bay4 to Bay12; L=110m)	48	27-Jan-21	30-Mar-21	30
CON21730	Construct NB tie beam (CT4, SE2 Bay4 to Bay12; L=110m)	48	06-Feb-21	10-Apr-21	
Road Improvement Works		617	23-May-19 A	21-Jun-21	
	S Location 5 (RW5)		-		
Construction Works		617	23-May-19 A	21-Jun-21	
CON31050	(CE140) Cut slope works (CH0 to CH115) (L=115m, 10857m3, 30m3/d)	365	23-May-19 A	23-Dec-20	
CON31070	(CE140) Construct RWD3 (CH0 to CH60)	150	18-Dec-19 A	18-Nov-20	
CON31074	PM review & acceptance and slope stabilization measures (Stage 1)	180	11-Mar-20 A	18-Nov-20	
CON30830	Construct retaining wall RWD2 wall	72	21-Jul-20 A	04-Nov-20	
CON30052	Condition survey at haul road B	60	21-Jul-20 A	28-Nov-20	
CON30658	Construct Twin Fresh Watermain CH270 to CH320	184	10-Aug-20 A	22-Mar-21	
CON30850	Construct slip road 4 utilities works & black fill & road works	72	18-Aug-20 A	06-Nov-20	
CON30290	Construct RWD1 (bay 1 to bay 7) pile cap (2 teams)	60	21-Aug-20 A	02-Nov-20	
CON30250	Construct mini pile at RWD1 (bay 8 to bay 14) (121nos, 1.4d/no, 2 teams)	81	21-Aug-20 A	24-Dec-20	
CON30252	ELS works at RWD1-Type 4	81	21-Aug-20 A	24-Dec-20	
CON30650	Construct Twin Fresh Watermain CH10 to CH100	120	31-Aug-20 A	22-Feb-21	
CON30656	Construct Twin Fresh Watermain CH10 to CH100	120	31-Aug-20 A	15-Mar-21	
CON30870	Construct slip road 4 road works	72	15-Sep-20 A	10-Dec-20	
CON30310	Construct RWD1 (bay 1 to bay 7) wall (2 teams)	60	18-Sep-20 A	30-Nov-20	
CON31050B	(NCE081) Inclement weather (21/8/2020 to 20/9/2020) affected to RIW3 Slop	19	06-Oct-20 A	04-Nov-20	
CON30310A	(NCE081) Inclement weather (21/8/2020 to 20/9/2020) affected to RIW3 RWE	19	27-Oct-20	17-Nov-20	
CON30662	Construct Fresh Watermain A CH320 to CH400 (EPD access)	180	02-Nov-20	12-Jun-21	
CON31050C	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW3 Slope D3	6	05-Nov-20	11-Nov-20	
CON31310	Utilities works, drainage works & watermain (CH0 to CH115)	90	12-Nov-20	03-Mar-21	
CON30660	Construct Twin Fresh Watermain CH100 to CH190	174	16-Nov-20	21-Jun-21	
CON30666	Construct Salt Watermain A near F1-3 (TKO Rd Slip Rd)	60	16-Nov-20	27-Jan-21	
CON30310B	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) affected to RIW3 R	6	18-Nov-20	24-Nov-20	
CON30330	Construct RWD1 (bay 1 to bay 7) utilities works & backfill (2 teams)	60	25-Nov-20	05-Feb-21	
CON30530	Drainage & utilities works (bay 1 to bay 7)	60	28-Nov-20	09-Feb-21	
CON30070	Form haul road B	42	30-Nov-20	20-Jan-21	
CON31330	Road works (CH0 to CH115)	90	05-Dec-20	30-Mar-21	
CON31730	Road re-alignment & TTA modification on SMPR	30	11-Dec-20	18-Jan-21	
		60		08-Mar-21	
CON30550	Road works (bay 1 to bay 7)		22-Dec-20		
CON30250A	(NCE[TBA]) Inclement weather (21/8/2020 to 20/9/2020) affected to RIW3 min	19	28-Dec-20	19-Jan-21	
CON30664	Construct Fresh Watermain B CH320 to CH380 (TKO Rd Slip Rd)	96	04-Jan-21	04-May-21	
CON30250B	(NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on RIW3 D1	6	20-Jan-21	26-Jan-21	
CON30130	Slope works at slope D1 (stage 2, 20% completed)	72	21-Jan-21	22-Apr-21	
CON30350	Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)	60	27-Jan-21	14-Apr-21	
Pedestrian Connectivity Fa	acility (PC-E11)	398	28-Feb-20 A	23-Mar-21	
Construction Works		398	28-Feb-20 A	23-Mar-21	
CON43010	Maintenance temporary access form lin tak road to new bus-bus interchange	288	28-Feb-20 A	10-Jan-21	
CON42310	(CE140) Construct pier E11-P3	48	06-Mar-20 A	28-Oct-20	
CON42410	Construct pier E11-P4	48	23-Mar-20 A	28-Oct-20	
	Construct pier E11-P2	48	30-Mar-20 A	28-Oct-20	
CON142330		40		28-Oct-20	
CON42330	· ·	40			
CON42370	Construct pier E11-P1	48	21-Apr-20 A		
CON42370 CON42350	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill	60	22-Jun-20 A	28-Oct-20	
CON42370 CON42350 CON42270	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill	60 120	22-Jun-20 A 07-Sep-20 A	28-Oct-20 23-Mar-21	
CON42370 CON42350 CON42270 CON42910	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11)	60 120 144	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A	28-Oct-20 23-Mar-21 15-Mar-21	
CON42370 CON42350 CON42270 CON42910 CON42294	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion	60 120 144 66	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20	
CON42370 CON42350 CON42270 CON42910	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11)	60 120 144 66 6	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A	28-Oct-20 23-Mar-21 15-Mar-21	
CON42370 CON42350 CON42270 CON42910 CON42294	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion	60 120 144 66	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20	
CON42370 CON42350 CON42270 CON42910 CON42294 CON42350A	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6	60 120 144 66 6	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20	
CON42370 CON42350 CON42270 CON42910 CON42294 CON42350A CON42410A	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6 (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-P1, P2, P3 -	60 120 144 66 6 6	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20 29-Oct-20	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20 04-Nov-20	
CON42370 CON42350 CON42270 CON42910 CON42294 CON42350A CON42410A CON42450 CON42630	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6 (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-P1, P2, P3 Erect steel frame E11-FB2, construct floor slab & side planter	60 120 144 66 6 6 30	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20 29-Oct-20 05-Nov-20	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20 04-Nov-20 09-Dec-20	
CON42370 CON42350 CON42270 CON42910 CON42294 CON42350A CON42410A CON42450	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6 (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-P1, P2, P3 Erect steel frame E11-FB2, construct floor slab & side planter Construct covered-walkway between PC-E11 & BBI toilet	60 120 144 66 6 6 6 30 102	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20 04-Nov-20 09-Dec-20 10-Mar-21	
CON42370 CON42350 CON42270 CON42910 CON42294 CON42350A CON42410A CON42450 CON42630 CON42630 CON42670 CON42430	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6 (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-P1, P2, P3 Erect steel frame E11-FB2, construct floor slab & side planter Construct covered-walkway between PC-E11 & BBI toilet Install glass & window to lift tower no 2 Erect steel frame E11-FB3, construct floor slab & side planter	60 120 144 66 6 6 30 102 42 30	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 05-Nov-20 16-Nov-20	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20 09-Dec-20 10-Mar-21 23-Dec-20 19-Dec-20	
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CON42370 CON42350 CON42270 CON42270 CON422910 CON42294 CON42294 CON42294 CON42294 CON42410A CON42450 CON42450 CON42530 CON42530 CON42294A CON42550 CON42550 CON42510 CON42510 CON42590 CON42770 CON42870 CON42872 CON42872 CON42872 CON4298 vdestrian Connectivity Fa construction Works CON41110 CON41610	Construct pier E11-P1 Construct lift tower 2 (2 teams) & blackfill Construct U/G utilities & backfill Application for power supply & energization (PC-E11) Existing DN900 drainage pipe diversion (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC6 (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-P1, P2, P3 . Erect steel frame E11-FB2, construct floor slab & side planter Construct covered-walkway between PC-E11 & BBI toilet Install glass & window to lift tower no 2 Erect steel frame E11-FB3, construct floor slab & side planter (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC1 Erect steel frame E11-FB4, construct floor slab & side planter (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC1 Erect steel frame E11-FB5, construct floor slab & side planter (NCE[TBA]) Inclement weather (21/9/2020 to 20/10/2020) on E11-PC1 Erect steel frame E11-FB5, construct floor slab & side planter Construct type L manhole (2nos) Erect roof steel frame, gutter, corrugated metal sheet & fall arrest system E11-F Erect roof steel frame, gutter, corrugated metal sheet & fall arrest system E11-F Erect roof steel frame, gutter, corrugated metal sheet & fall arrest system E11-F E&M works 0LT2 (inside 2nos lift shaft) ABWF works @LT2 (Other than lift shart area) Erect roof steel frame, gutter, corrugated metal sheet & fall arrest system E11-F E&M works to PC-E11 @LT2 (Notice 2nos lift shaft) ABWF works to PC-E11 @LT2 (Other than lift shart area) Construct sub-structure for E11-PC1 acility (PC-E8) (EWN070) Construct escalator pit P4>P5 (E9 & E10) 1_ Install escalator (E8-E1 & E8-E2) (F1 to P1)	60 120 144 66 6 30 102 42 30 6 30 6 30 42 48 48 12 48 12 48 12 48 36 27 220 60 90	22-Jun-20 A 07-Sep-20 A 11-Sep-20 A 12-Sep-20 A 29-Oct-20 05-Nov-20 05-Nov-20 05-Nov-20 065-Nov-20 16-Nov-20 07-Dec-20 07-Dec-20 09-Dec-20 09-Dec-20 10-Dec-20 21-Dec-20 24-Dec-20 05-Jan-21 11-Jan-21 11-Jan-21 14-Jan-21 25-Jan-21 17-Aug-20 A 17-Aug-20 A 17-Aug-20 A 04-Sep-20 A	28-Oct-20 23-Mar-21 15-Mar-21 01-Dec-20 04-Nov-20 09-Dec-20 10-Mar-21 23-Dec-20 19-Dec-20 04-Jan-21 08-Dec-20 13-Jan-21 29-Jan-21 06-Feb-21 20-Feb-21 09-Jan-21 04-Mar-21 23-Jan-21 10-Mar-21 13-Mar-21 10-Mar-21 05-Mar-21 21-May-21 21-May-21 04-Nov-20 21-Dec-20	Anderson Road Quarry Site - Investigation Design & Construction Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2A 3-Month Rolling Programme



PEB) (P3 to P4) Image: Constraint of the part of the par	90 48 48 24 48 6 12 48 72 60 72 60 72 60 18 42 90 90 60	19-Sep-20 A 21-Sep-20 A 05-Oct-20 A 21-Oct-20 21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20 24-Nov-20	08-Jan-21 30-Nov-20 18-Nov-20 18-Nov-20 16-Dec-20 28-Oct-20 11-Nov-20 02-Jan-21 30-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	Nov Dec Jan Feb 35 36 37 38
& backfilling (21/9/2020 to 20/10/2020) on E8 F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	48 48 24 48 6 12 48 72 60 72 60 72 60 18 42 90 90	21-Sep-20 A 05-Oct-20 A 21-Oct-20 21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	30-Nov-20 18-Nov-20 18-Nov-20 16-Dec-20 28-Oct-20 11-Nov-20 02-Jan-21 30-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
(21/9/2020 to 20/10/2020) on E8 F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	48 24 48 6 12 48 72 60 72 60 18 42 90 90	05-Oct-20 A 21-Oct-20 21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	18-Nov-20 18-Nov-20 28-Oct-20 23-Jan-21 30-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
(21/9/2020 to 20/10/2020) on E8 F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	24 48 6 12 48 72 60 72 60 18 18 42 90 90	21-Oct-20 21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	18-Nov-20 16-Dec-20 28-Oct-20 02-Jan-21 30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
(21/9/2020 to 20/10/2020) on E8 F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	48 6 12 48 72 60 72 60 18 42 90 90	21-Oct-20 21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	16-Dec-20 28-Oct-20 11-Nov-20 02-Jan-21 30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	6 12 48 72 60 72 60 18 42 90 90	21-Oct-20 29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	28-Oct-20 11-Nov-20 02-Jan-21 30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
F8 (additional duration due to higher rockhead 25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	12 48 72 60 72 60 18 42 90 90	29-Oct-20 05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	11-Nov-20 02-Jan-21 30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
25) 1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	48 72 60 72 60 18 42 90 90	05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	02-Jan-21 30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	72 60 72 60 18 42 90 90	05-Nov-20 05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	30-Jan-21 16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	60 72 60 18 42 90 90	05-Nov-20 10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	16-Jan-21 04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
1 to P1) 8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	72 60 18 42 90 90	10-Nov-20 10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	04-Feb-21 21-Jan-21 02-Dec-20 09-Jan-21	
8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	60 18 42 90 90	10-Nov-20 12-Nov-20 19-Nov-20 24-Nov-20	21-Jan-21 02-Dec-20 09-Jan-21	
8 (additional duration due to higher rockhead k 8-E10) (P4 to P5)	18 42 90 90	12-Nov-20 19-Nov-20 24-Nov-20	02-Dec-20 09-Jan-21	
8-E10) (P4 to P5)	42 90 90	19-Nov-20 24-Nov-20	09-Jan-21	
	90 90	24-Nov-20		
	90		15-Mar-21	
			15-Mar-21	
		30-Nov-20	10-Feb-21	
	60	30-Nov-20	10-Feb-21	
& backfilling	30	03-Dec-20	09-Jan-21	
3	72	03-Dec-20	03-Mar-21	
mentworks	110	04-Jan-21	21-May-21	
	72	04-Jan-21	03-Apr-21	
	30	11-Jan-21	17-Feb-21	
E3 & E4)	60	11-Jan-21	24-Mar-21	
	60	11-Jan-21	24-Mar-21	
	60	11-Feb-21	29-Apr-21	
(E13 & E14)	60	18-Feb-21	04-May-21	
	162	11-Aug-20 A	25-Feb-21	
	162	11-Aug-20 A	25-Feb-21	
ower to roof level (3m/pour, +144 to +165.7mPl	162	11-Aug-20 A	25-Feb-21	
	464	12-Jun-20 A	12-Jan-22	
	464		12-Jan-22	
		-		
		•		
	-			
	6	18-Nov-20	24-Nov-20	
B-PC6	30	21-Nov-20	28-Dec-20	
ply 2nd stage TTA & civil works for gasmain dive	12	25-Nov-20	08-Dec-20	
smain diversion works (by Towngas)	36	09-Dec-20	22-Jan-21	
je pipe	312	22-Dec-20	12-Jan-22	
S-PC6	6	29-Dec-20	05-Jan-21	
	12	29-Dec-20	12-Jan-21	
SYB-PC6	50	06-Jan-21	08-Mar-21	
	30	13-Jan-21	19-Feb-21	
	8	23-Jan-21	01-Feb-21	
	14	02-Feb-21	20-Feb-21	
.T1 & R.C. desk P2 to LT1	120	17-Feb-21	15-Jul-21	
	365	01-Apr-20 A	01-Apr-21	
	365	01-Apr-20 A	01-Apr-21	
cape Softworks in Section 10 (Portion FI)	365	01-Apr-20 A	01-Apr-21	
: (() ; (() ; (() ; () ; () ; () ; () ; (Image:	72 30 (E3 & E4) 60 (E5 & E6) 60 80 60 80 60 80 60 80 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 60 81 61 82 464 464 464 44 464 44 464 42 4 94m3) 24 94m3) 24 94m3) 24 94m3) 24 12 12 r) 42 r) 42 r) 42 r) 42 r) 42 <	72 04-Jan-21 30 11-Jan-21 (E3 & E4) 60 11-Jan-21 (E5 & E6) 60 11-Jan-21 (E5 & E6) 60 11-Jan-21 60 11-Jan-21 60 ST (E13 & E14) 60 18-Feb-21 162 11-Aug-20 A 162 11-Aug-20 A 162 11-Aug-20 A 464 12-Jun-20 A 464 12-Jun-20 A 464 12-Jun-20 A 4ture SYB-ABT 90 12-Jun-20 A 94m3) 24 21-Aug-20 A 12 02-Un-20 A 146 12 11-Aug-20 A 14 14 to coVID-19 from 3/8 to 8/8 [SyB-PC2] 6 19-Oct-20 A 12 12-Vor-20 12 03-Nov-20 12 r) 42 03-Nov-20 12 03-Nov-20 r) 42 12-Nov-20 12 25-Nov-20 r) 42 12-Nov-20 12 25-Nov-20 r)	72 04-Jan-21 03-Apr-21 30 11-Jan-21 17-Feb-21 (E3 & E4) 60 11-Jan-21 24-Mar-21 (E5 & E6) 60 11-Jan-21 24-Mar-21 (E5 & E6) 60 11-Feb-21 29-Apr-21 ST (E13 & E14) 60 18-Feb-21 04-May-21 I62 11-Aug-20A 25-Feb-21 Itower to roof level (3m/pour, +144 to +165.7mPl 162 11-Aug-20A 25-Feb-21 Itower to roof level (3m/pour, +144 to +165.7mPl 162 11-Aug-20A 25-Feb-21 Itower to roof level (3m/pour, +144 to +165.7mPl 162 11-Aug-20A 25-Feb-21 Itower to roof level (3m/pour, +144 to +165.7mPl 162 11-Aug-20A 25-Feb-21 Itower to roof level (3m/pour, +144 to +165.7mPl 162 11-Aug-20A 12-Jan-22 Iture SYB-ABT 90 12-Jun-20A 12-Jan-22 Iture SYB-ABT 90 12-Jun-20A 12-Jan-22 Iture SYB-ABT 90 12-Jun-20A 22-Nov-20 Iture SYB-ABT 90 12-Jun-20A <t< td=""></t<>



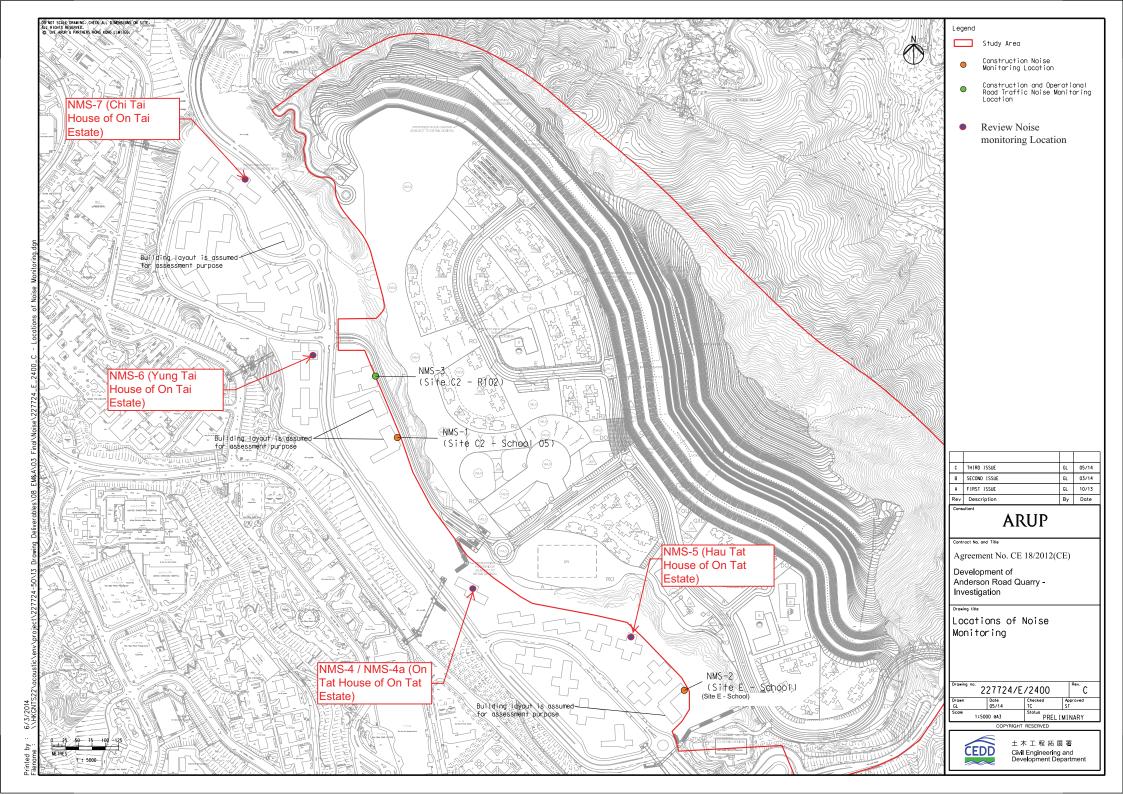
Appendix D

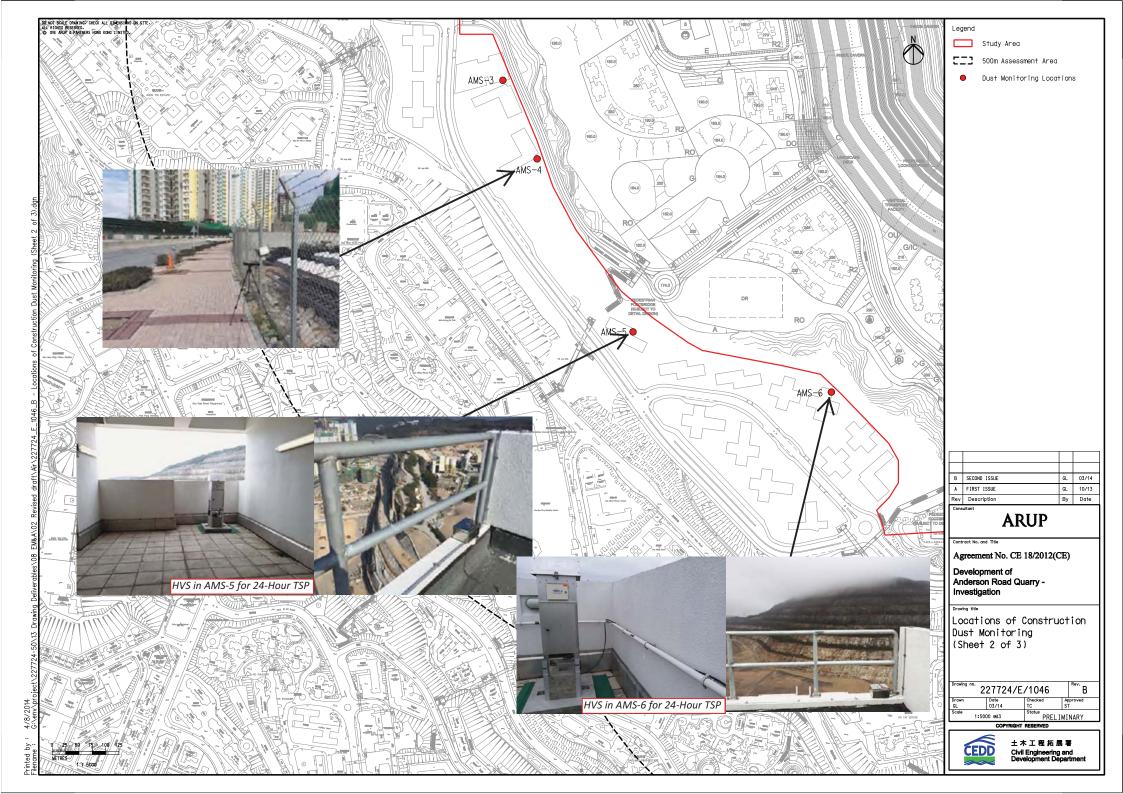
Monitoring Locations for Impact Monitoring

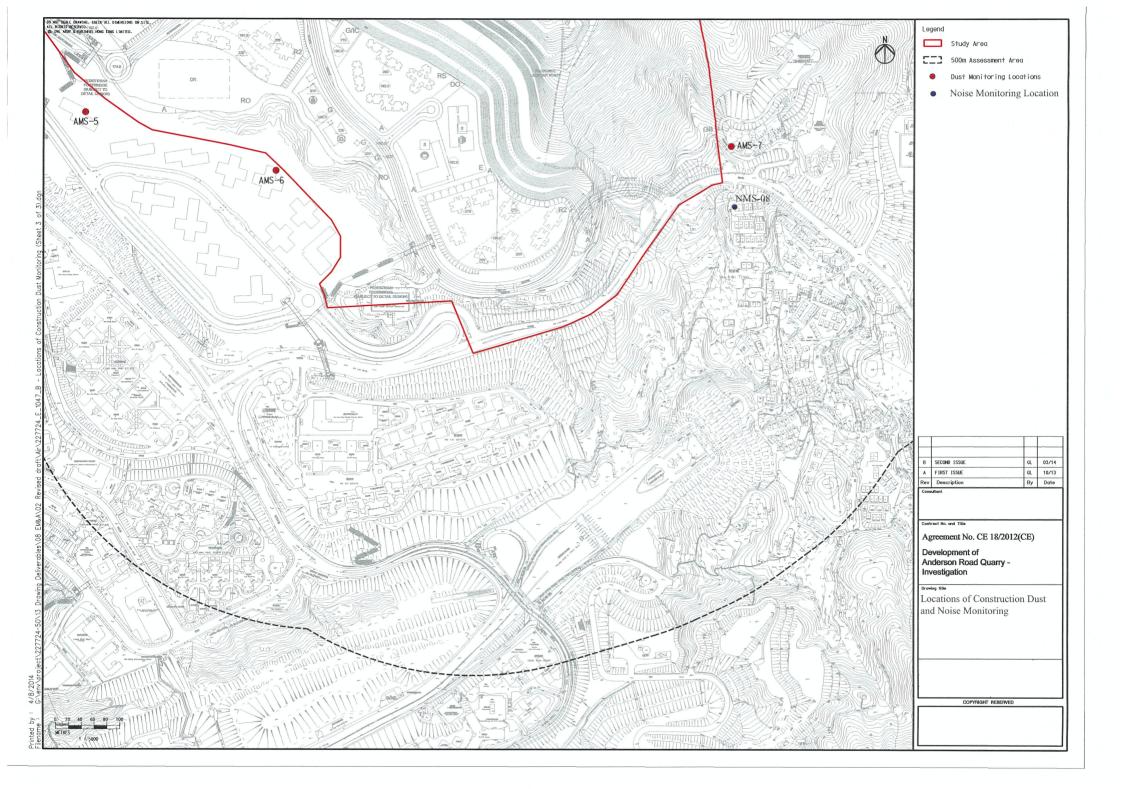


Monitoring Locations for Contract 1 (NE/2016/01)



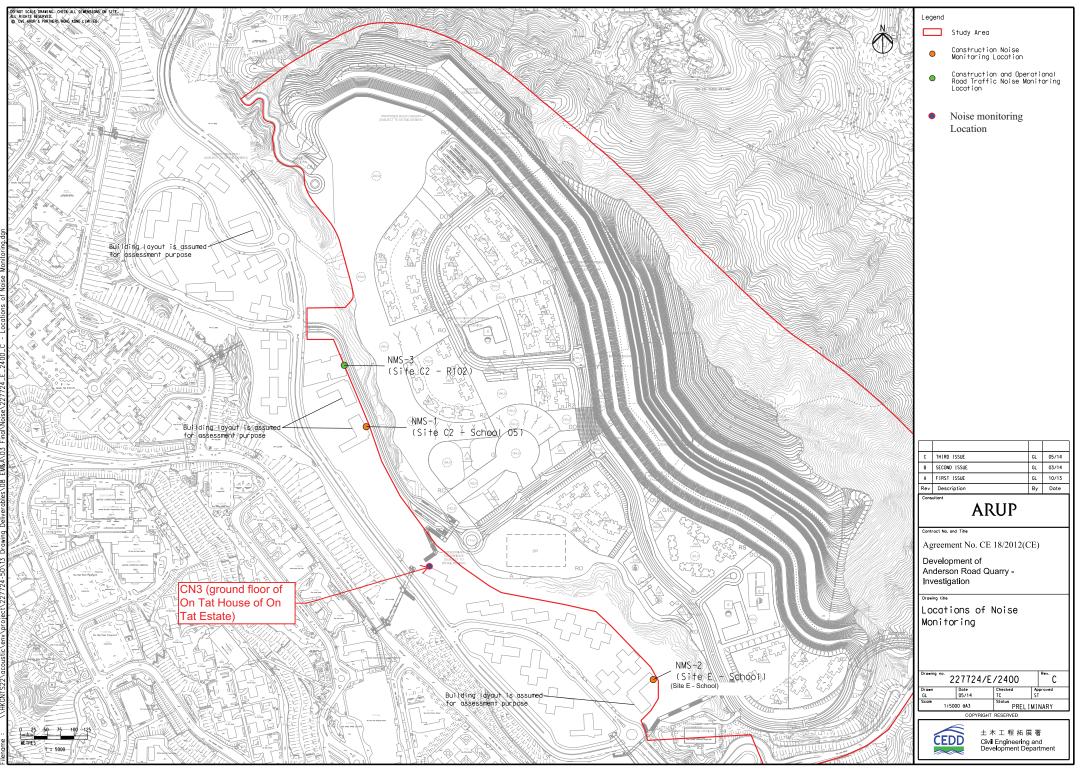






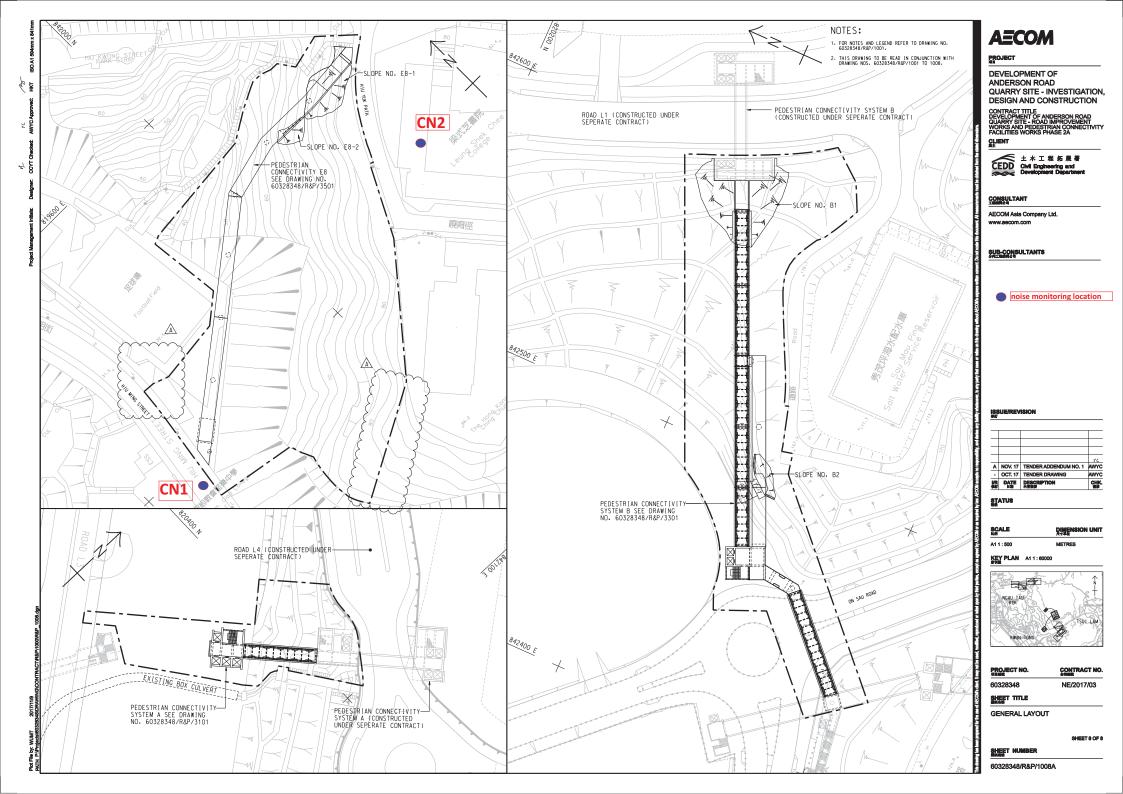


Monitoring Locations for Contract 3 (NE/2017/03)



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

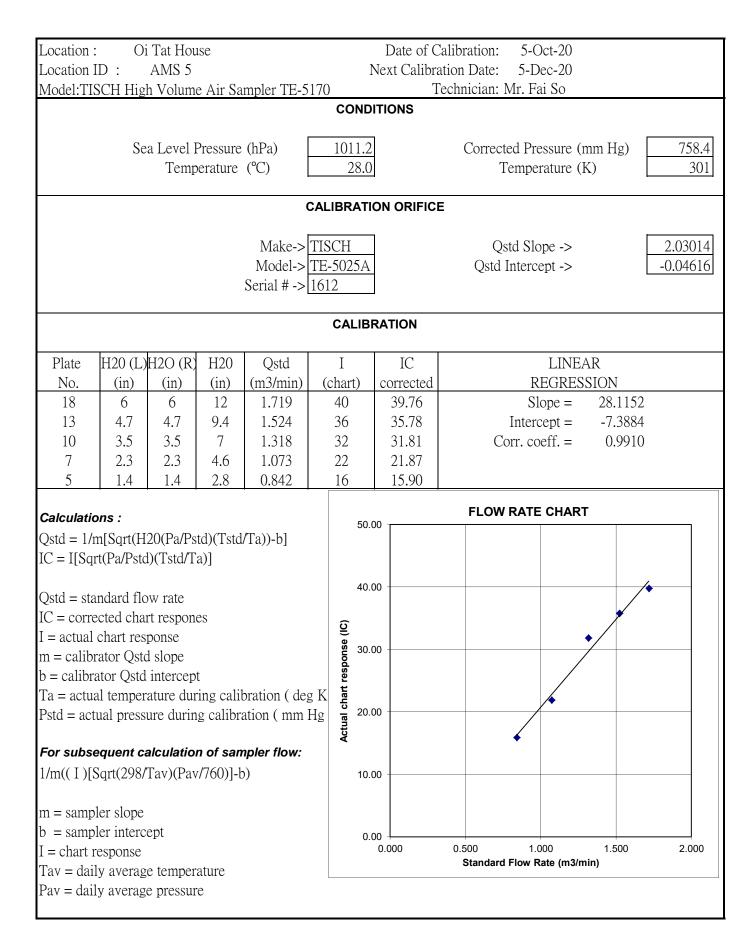
2012





Appendix E

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



Location :	IIo	u Tat Ho					Data of (Calibration	. 5	-Oct-20		
Location 1		u Tal Ho AMS 6	u8C			N	Jale of C Vext Calibra			Dec-20		
			e Air Sa	mpler TE-51	70	1		Technician				
1110401111			e i ili ou			ONDIT						
				_							_	
	Se	a Level H	Pressure	(hPa)	10	011.2		Corre	ected F	Pressure (m	m Hg)	758.4
Temperature (°C)									Temp	perature (K))	301
				C.	ALIBR		N ORIFICE					
				Make->'	ГISCH	I			Qstd S	lope ->	Γ	2.03014
				Model->'	ГЕ-50	25A		Qst	d Inter	rcept ->		-0.04616
				Serial # ->	1612							
					CA		ATION					
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι		IC			LINEAR		
No.	(in)	(in)	(in)	(m3/min)	(cha	,	corrected			REGRESSI		
18	5.4	5.4	10.8	1.632	54		53.67			Slope = 4		
13	4.2	4.2	8.4	1.442	48		47.71			ercept = -1		
10	3.4	3.4	6.8	1.299	4(39.76		Corr. (coeff. =	0.9977	
7	2.2	2.2	4.4	1.050	28		27.83					
5	1.3	1.3	2.6	0.812	18	5	17.89					
Calculatio	ons :							FLOV	V RATI	E CHART		
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	td)(Tstd	/Ta))-b]		60.00) -					
IC = I[Squ	t(Pa/Pstc	l)(Tstd/T	a)]									
						50.00						
Qstd = sta											◆	
IC = correction		-	es								, 	
I = actual		-			e (IC	40.00				/		
m = calibration b = calibration calibration b = calibration	-	-	+		suoc							
	-	-		oration (deg	K	30.00						
				ation (mm H	Ta La				,			
1 514 – 401	uur press	ure durm	g cunon		Actual chart response (IC)	~~~~~						
For subse	equent ca	alculatio	n of san	pler flow:	Act	20.00			•			
1/m((I)[S	Sqrt(298/	Tav)(Pav	r/760)] - t))								
						10.00)					
m = samp												
b = samp		ept				0.00						
I = chart r	-	- 4					0.000	0.500			1.500	2.000
Tav = dail								Standar	d Flow I	Rate (m3/min)		
Pav = dail	y average	e pressur	C									

-												
Location: Ma Yau Tong Village							Dat	e of C	alibration:	5-Oct-20		
Location I	D: Al	MS 7				Ν	Next (Calibra	ation Date:	5-Dec-20		
Model:TIS	SCH High V	Volum	e Air Sa	mpler TE-5	170			Т	echnician:	Mr. Fai So		
					CC	NDI	TION	S				
							•					
	Sea L	Level I	Pressure	(hPa)	10	11.2			Correc	cted Pressure ((mm Hg)	758.4
	erature	(°C)	1	28.0	J		I	Temperature ((K)	301		
				C	ALIBR	ATIC	ON OF	RIFICE				
						_	1					
				Make->						Std Slope ->		2.03014
				Model->		25A			Qsto	Intercept ->		-0.04616
				Serial # ->	1612		l					
					CA	LIBR	RATIO	'n				
Plate	H20 (L)H2	$O(\mathbb{R})$	H20	Qstd	Ι		T	С		LINE	٨R	
No.		(in)	(in)	(m3/min)	(chai	rt)		ected	REGRESSION			
18		3.2	6.4	1.261	52	ź	51.69			Slope =	37.975	4
13		2.5	5	1.118	48		47		Intercept =		4.861	
10		2.0	4	1.002	44		43		(Corr. coeff. =	0.992	
7		1.2	2.4	0.781	36			.78				
5		0.8	1.6	0.642	28			.83				
	010	0.0	110	01012	20		27					
Calculatio	ons :				ī	d						
Qstd = 1/r	n[Sqrt(H20	(Pa/Ps	td)(Tstd	/Ta))-b]					FI O	W RATE CHA	RT	
IC = I[Squ	t(Pa/Pstd)(7	Гstd/Т	a)]			6	60.00					
Qstd = sta	ndard flow	rate				Į	50.00				/	•
IC = corrections	cted chart r	espone	es								*	
I = actual	chart respor	nse								,	*	
m = calibi	ator Qstd sl	lope				୍ୱିତ୍ର	40.00 -			/		
b = calibra	ator Qstd in	tercep	t			onse	40.00 - 30.00 - 20.00 -			*		
Ta = actua	al temperatu	ire dur	ing calil	oration (de	gK)	espo	30.00 -					
Pstd = act	ual pressure	e durin	g calibra	ation (mm	Hg)	art				•		
						l ch						
For subse	equent calc	ulatio	n of san	pler flow:		ctua	20.00 -					
1/m((I)[S	Sqrt(298/Tav	v)(Pav	r/760)]-b))		◄						
							10.00 -					
m = samp												
b = samp	ler intercept	t										
I = chart r	esponse						0.00 0.0		0.50		.000	1.500
Tav = dail	y average te	emper	ature				0.0			ard Flow Rate (m		1.000
Pav = dail	y average p	ressur	e		Į							

Location :	Tan Shan	Village No.	5 - 6		Date of (Calibration: 5-Oct-20	
Location I		AMS1a				ration Date: 5-Dec-20	
Model:TIS	SCH High V	/olume Air	Sampler 7	TE-5170			Technician: Mr. Fai So
					CONDITIO	NS	
		Son Low	el Pressure	(hD_0)	1011.2	5	Corrected Pressure (mm Hg) 758.4
			mperature	. ,	28.0		Temperature (K) 301
		10	mperature	(C)	20.0	<u></u>	
				CALI	BRATION	ORIFICE	
				Make->	TISCH]	Qstd Slope -> 2.03014
					TE-5025A		Qstd Intercept -> -0.04616
				Serial # ->	1612		
					CALIBRAT	ION	
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	
18	4.7	4.7	9.4	1.524	54	53.67	Slope = 30.2212
13	3.8	3.8	7.6	1.372	48	47.71	Intercept = 7.0946
10	2.9	2.9	5.8	1.202	44	43.73	Corr. coeff. = 0.9984
7	1.8	1.8	3.6	0.952	36	35.78	
5	1.1	1.1	2.2	0.749	30	29.82	<u> </u>
Calculatio	ns ·						
		(Pa/Pstd)(T	std/Ta))-bj				
IC = I[Sqr	t(Pa/Pstd)(7	[std/Ta)]				60.00 T	FLOW RATE CHART
-	ndard flow					50.00	*
	cted chart r					50.00 -	<u> </u>
	chart respon						• • • • • • • • • • • • • • • • • • •
	ator Qstd sl 1tor Qstd in					<u>୍</u> ଥି 40.00	
		re during c	alibration	(deg K)		ouse	×
		during cali				8 30.00	
				8 /		00.04 (C) 00.05 (C) 00.05 (C) 00.05 (C)	
For subse	quent calc	ulation of s	ampler flo	w:		ual c	
1/m((I)[S	grt(298/Ta	v)(Pav/760)]-b)			20.00 ¥	
m = sampl	er slope						
	er intercept	t				10.00	
I = chart re							
	y average t	emperature				0.00	
	y average p					0.00	
	0 1						Standard Flow Rate (m3/min)

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001299					
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 : 6-JAN-2020					
	KONG	DATE OF ISSUE : 10-JAN-2020					
PROJECT	:	NO. OF SAMPLES : 1					
		CLIENT ORDER ÷					

General Comments

- Sample(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., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

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.

Results apply to sample(s) as submitted. 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

: HK2001299

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2001299-001	S/N: 11008017	AIR	06-Jan-2020	S/N: 11008017

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	TSI AM510
Serial No.	11008017
Equipment Ref:	EQ102
Work Order:	HK2001299

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES Office (Calibration Room)
Equipment Ref:	HVS 018
Last Calibration Date:	3 December 2019

Equipment Verification Results:

Verification Date:

27 & 31 December 2019

0.5354

0.9984

6 January 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Concentration in mg/m ³ (Calibrated Equipment)	Tolerance (mg/m ³)
2hr	09:08 ~ 11:10	18.0	1020.3	0.040	0.076	+0.036
2hr	11:15 ~ 13:16	19.2	1024.9	0.048	0.087	+0.039
2hr15min	13:22 ~ 15:23	19.2	1024.9	0.034	0.066	+0.032

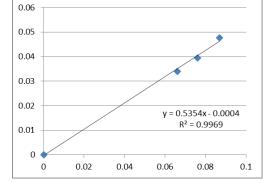
Linear Regression of Y or X

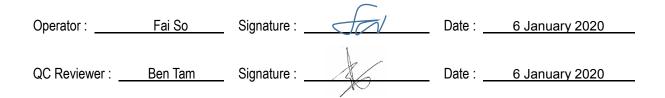
Slope (factor):	
Correlation Coefficient (R)	
Date of Issue	

Remarks:

- 1. **Strong** Correlation (R>0.8)
- 2. Factor 0.5354 should be apply for TSP monitoring

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





Location : Gold King Industrial Building, Kwa Location ID : Calibration Room						nung		of Calibration: 3-I libration Date: 3-N	
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressu Temperatu		767.325 289
				CALI	BRATI	ON ORIFICE			
		Calibrat	Make-> Model-> ion Date->	502	SCH 25A eb-19		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	1011 001100100 53 54.04 48 48.94 41 41.80 30 30.59 22 22.43		Slope = 36.7338 Intercept = -9.6198 Corr. coeff. = 0.9986		
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 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					00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 					0	0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000



Key

ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

	0e	rtifa	cate	of	Oal	iori	tion	
			Calibration	Certificati	on Informat	ion		
Cal. Date:	February 5	, 2019	Roots	meter S/N:	438320	Ta:	293	°К
Operator:	Jim Tisch					Pa:	753.1	mm Hg
Calibration I	Model #:	TE-5025A	Cali	brator S/N:	1941			-
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
4	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	
	2	3	4	1	1.0430	6.4	4.00	1
	3	5	6	1	0.9300	7.9	5.00]
	4	7	8	1	0.8870	8.7	5.50]
	5	9	10	1	0.7320	12.7	8.00	
]			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstc}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	1.0036	0.6767	1.41	97	0.9958	0.6714	0.8821	1
	0.9993	0.9581	2.00	78	0.9915	0.9506	1.2475	1
	0.9973	1.0723	2.24	48	0.9895	1.0640	1.3947]
	0.9962	1.1231	2.35	44	0.9884	1.1144	1.4628]
	0.9908	1.3536	2.83		0.9831	1.3431	1.7642	
		m=	2.096			m=	1.31298	
,	QSTD	b=	-0.00		QA	b=	-0.00040	1
		r=	0.999	999		<u>r=</u>	0.99999]
				Calculatio	ns	216/100418/04/10040244141824404404404404824494444]
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/T	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	1
	Qstd=	Vstd/∆Time	******		Qa=	Va/∆Time		1
			For subsequ	ent flow ra	te calculatio	ns:		1
	Qstd=	1/m ((Pa Pstd Tstd	-))-b)	Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			
	Standard	Conditions			_			
Tstd:	298.15		de diving to the second se			RECA	LIBRATION	
Pstd:	760	mm Hg					nnual racalibrati	100

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

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

b: intercept m: slope

> <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 HK2001300						
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 : 6-JAN-2020						
	KONG	DATE OF ISSUE : 10-JAN-2020						
PROJECT	:	NO. OF SAMPLES : 1						
		CLIENT ORDER						

General Comments

- Sample(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., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. 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

: HK2001300

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2001300-001	S/N: 366410	AIR	06-Jan-2020	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	HK2001300

Standard Equipment:

Standard Equipment:	Higher Volume Sampler			
Location & Location ID:	AUES office (calibration room)			
Equipment Ref:	HVS 018			
Last Calibration Date:	3 December 2019			

Equipment Verification Results:

Testing Date:

27&31 December 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr	09:08 ~ 11:10	18.0	1020.3	0.040	2298	19.2
2hr	11:15 ~ 13:16	19.2	1024.9	0.048	2477	20.6
2hr15min	13:22 ~ 15:23	19.2	1024.9	0.034	1941	14.4

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



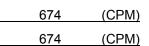
Slope (K-factor):	0.0022				
Correlation Coefficient	0.9937				
Date of Issue	6 January 2020				

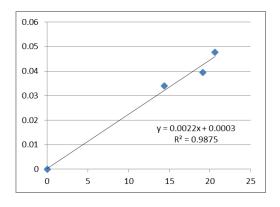
Remarks:

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





Operator :	Fai So	Signature : _	far	Date :	6 January 2020
QC Reviewer :	Ben Tam	Signature : _	K	Date :	6 January 2020

Location : Gold King Industrial Building, Kwa Location ID : Calibration Room						nung		of Calibration: 3-I libration Date: 3-N	
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressu Temperatu		767.325 289
				CALI	BRATI	ON ORIFICE			
		Calibrat	Make-> Model-> ion Date->	502	SCH 25A eb-19		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	1011 001100100 53 54.04 48 48.94 41 41.80 30 30.59 22 22.43		Slope = 36.7338 Intercept = -9.6198 Corr. coeff. = 0.9986		
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 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					00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 					0	0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000



Key

ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

	0e	rtifa	cate	of	Oal	iori	tion	
			Calibration	Certificati	on Informat	ion		
Cal. Date:	February 5	, 2019	Roots	meter S/N:	438320	Ta:	293	°K
Operator:	Jim Tisch					Pa:	753.1	mm Hg
Calibration I	Model #:	TE-5025A	Cali	brator S/N:	1941			-
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
4	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	
	2	3	4	1	1.0430	6.4	4.00	1
	3	5	6	1	0.9300	7.9	5.00]
	4	7	8	1	0.8870	8.7	5.50]
	5	9	10	1	0.7320	12.7	8.00	
]			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstc}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	1.0036	0.6767	1.41	97	0.9958	0.6714	0.8821	1
	0.9993	0.9581	2.00	78	0.9915	0.9506	1.2475	1
	0.9973	1.0723	2.24	48	0.9895	1.0640	1.3947]
	0.9962	1.1231	2.35	44	0.9884	1.1144	1.4628]
	0.9908	1.3536	2.83		0.9831	1.3431	1.7642	
		m=	2.096			m=	1.31298	
,	QSTD	b=	-0.00		QA	b=	-0.00040	1
		r=	0.999	999		<u>r=</u>	0.99999	
				Calculatio	ns	216/100418/04/1004-044118/04/04/04/04/04/04/04/04/04/04/04/04/04/]
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/T	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	1
	Qstd=	Vstd/∆Time	******		Qa=	Va/∆Time		1
			For subsequ	ent flow ra	te calculatio	ns:		1
	Qstd=	1/m ((Pa Pstd Tstd	-))-b)	Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			
	Standard	Conditions						
Tstd:	298.15		de diving to the second se			RECA	LIBRATION	
Pstd:	760	mm Hg					nnual racalibrati	100

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

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Village of Cleves, OH 45002

b: intercept m: slope

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001298					
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 : 6-JAN-2020					
	KONG	DATE OF ISSUE : 10-JAN-2020					
PROJECT	:	NO. OF SAMPLES : 1					
		CLIENT ORDER +					

General Comments

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- Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. 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 SUB-BATCH

CLIENT

PROJECT

: HK2001298

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2001298-001	S/N: 2X6145	AIR	06-Jan-2020	S/N: 2X6145

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	2X6145
Equipment Ref:	EQ105
Job Order	HK2001298

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	3 December 2019

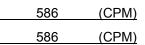
Equipment Verification Results:

Testing Date:

27&31 December 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr	09:08 ~ 11:10	18.0	1020.3	0.040	2254	18.8
2hr	11:15 ~ 13:16	19.2	1024.9	0.048	2561	21.3
2hr15min	13:22 ~ 15:23	19.2	1024.9	0.034	1841	13.6

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



Linear Regression of Y or X

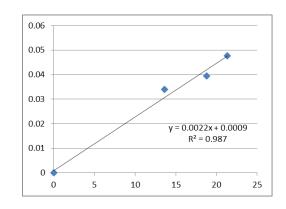
Slope (K-factor):	0.0022
Correlation Coefficient	0.9935
Date of Issue	6 January 2020

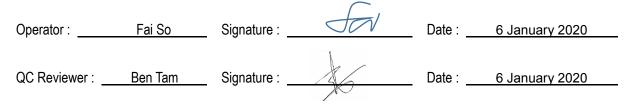
Remarks:

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 : Location ID :	Gold Ki Calibrat	-	strial Buildi m	ng, K	nung		of Calibration: 3-I libration Date: 3-N		
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressu Temperatu		767.325 289
				CALI	BRATI	ON ORIFICE			
Make-> TIS Model-> 502 Calibration Date-> 5-Fe					25A		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	53 18 11 50 22	54.04 48.94 41.80 30.59 22.43	Slope Intercep Corr. coeff	t = -9.6198	
Calculations : Qstd = 1/m[Squ IC = I[Sqrt(Pa/ Qstd = standard IC = corrected I = actual chart m = calibrator (C Ta = actual ten Pstd = actual p For subsequen 1/m((I)[Sqrt(2 m = sampler she	Pstd)(Tstd/T I flow rate chart response Qstd slope Qstd intercep nperature du ressure durin t calculation (98/Tav)(Pay	ra)] es t ring cali ng calibr n of san	bration (de ation (mm apler flow:		00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 				0	0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000	



Key

ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

	0e	rtifa	cate	of	Oal	iori	tion	
			Calibration	Certificati	on Informat	ion		
Cal. Date:	Cal. Date: February 5, 2019 Rootsmeter S/N: 438320 Ta: 293							°K
Operator:	Jim Tisch					Pa:	753.1	mm Hg
Calibration I	Model #:	TE-5025A	Cali	brator S/N:	1941			-
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
4	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	
	2	3	4	1	1.0430	6.4	4.00	1
	3	5	6	1	0.9300	7.9	5.00]
	4	7	8	1	0.8870	8.7	5.50]
	5	9	10	1	0.7320	12.7	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstc}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	1.0036	0.6767	1.41	97	0.9958	0.6714	0.8821	1
	0.9993	0.9581	2.00	78	0.9915	0.9506	1.2475	1
	0.9973	1.0723	2.24	48	0.9895	1.0640	1.3947]
	0.9962	1.1231	2.35	44	0.9884	1.1144	1.4628]
	0.9908	1.3536	2.83		0.9831	1.3431	1.7642	
		m=	2.096			m=	1.31298	
,	QSTD	b=	-0.00		QA	b=	-0.00040	1
		r=	0.999	999		<u>r=</u>	0.99999	
				Calculatio	ns	216/100418/04/1004-044118/04/04/04/04/04/04/04/04/04/04/04/04/04/]
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/T	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	1
	Qstd=	Vstd/∆Time	******		Qa=	Va/∆Time		1
			For subsequ	ent flow ra	te calculatio	ns:		1
	Qstd=	1/m ((Pa Pstd Tstd	-))-b)	Qa=	$1/m \left(\sqrt{\Delta H} \right)$	l(Ta/Pa))-b)	
	Standard	Conditions						
Tstd:	298.15		de diving to the second se			RECA	LIBRATION	
Pstd:	760	mm Hg					nnual racalibrati	100

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

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

b: intercept m: slope

> <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 HK2001293				
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 : 6-JAN-2020				
	KONG	DATE OF ISSUE : 10-JAN-2020				
PROJECT	:	NO. OF SAMPLES : 1				
		CLIENT ORDER +				

General Comments

- Sample(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., if any) is provided by client.
- Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. 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

: HK2001293

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2001293-001	S/N: 3Y6503	AIR	06-Jan-2020	S/N: 3Y6503

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	3Y6503
Equipment Ref:	EQ112
Job Order	HK2001293

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	3 December 2019

Equipment Verification Results:

Testing Date:

27&31 December 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr	09:08 ~ 11:10	18.0	1020.3	0.040	2371	19.8
2hr	11:15 ~ 13:16	19.2	1024.9	0.048	2479	20.7
2hr15min	13:22 ~ 15:23	19.2	1024.9	0.034	1899	14.1

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



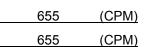
Slope (K-factor):	0.0022				
Correlation Coefficient	0.9889				
Date of Issue	6 January 2020				

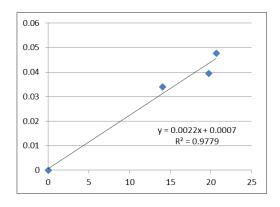
Remarks:

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





Operator :	Fai So	Signature :	Sal	Date :	6 January 2020
QC Reviewer :	Ben Tam	Signature :	46	Date :	6 January 2020

Location : Gold King Industrial Building, Kw Location ID : Calibration Room						wai Cł	nung		Date of Calibration: 3-Dec-19 Next Calibration Date: 3-Mar-20			
						COND	ITIONS					
	Se	a Level I Temp	Pressure perature	. ,	1	.023.1 16.4		(Corrected Pre Temper	ssure (m ature (K		767.325 289
					CALI	BRATI	ON ORIFIC	CE				-
						SCH 25A eb-19			Qstd Slope -> Qstd Intercept -> Expiry Date->			2.0968 -0.00065 5-Feb-20
						CALIB	RATION					
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		RI	LINEAL		
18 13 10 8 5	6.5 5.2 4.1 2.6 1.6	6.5 5.2 4.1 2.6 1.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4 4 3	1011 Contented 53 54.04 48 48.94 41 41.80 30 30.59 22 22.43			Slope = 36.7338 Intercept = -9.6198 Corr. coeff. = 0.9986			
Pstd = act For subsection 1/m((I)[S m = samp	n[Sqrt(H t(Pa/Psto ndard flo cted cha chart res ator Qstd ator Qstd ator Qstd d temper ual press quent ca Sqrt(298/	d)(Tstd/T ow rate rt respon- ponse d slope intercep rature dur ure durin alculation Tav)(Pav	a)] es t ring calil ng calibra n of sam	bration (de ation (mm		00 07 07 07 07 07 07 07	0.00 0.00 0.00 0.00 0.00		FLOW RATI		r •	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 					0	0.000	0.50	00 1.0 Standard Flow F		1.500 iin)	2.000	



Key

ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

	0e	rtifa	cate	of	Oal	iori	tion	
			Calibration	Certificati	on Informat	ion		
Cal. Date:	February 5	, 2019	Roots	meter S/N:	438320	Ta:	293	°К
Operator:	Jim Tisch					Pa:	753.1	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1941			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
4	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	
	2	3	4	1	1.0430	6.4	4.00	1
	3	5	6	1	0.9300	7.9	5.00]
	4	7	8	1	0.8870	8.7	5.50	
	5	9	10	1	0.7320	12.7	8.00	
				Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstc}\right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	1.0036	0.6767	1.41	97	0.9958	0.6714	0.8821	1
	0.9993	0.9581	2.00	78	0.9915	0.9506	1.2475	1
	0.9973	1.0723	2.24	48	0.9895	1.0640	1.3947]
	0.9962	1.1231	2.35	44	0.9884	1.1144	1.4628	
	0.9908	1.3536	2.83		0.9831	1.3431	1.7642	
		m=	2.096		QA	m=	1.31298	1
,	QSTD	b=	-0.00			b=	-0.00040	1
		r=	0.999	999		e r=	0.99999	
			nin a tin a sugar na hariyo ya ana ana sa kasina di anya na da ana ana ang	Calculatio	ns	ig frieder an		1
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/T	a)	Va= ΔVol((Pa-ΔP)/Pa)			1
	Qstd=	Vstd/∆Time	******		Qa=	Va/ Δ Time		1
			For subsequ	ent flow ra	te calculatio	ns:		1
	Qstd=	1/m ((Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=			
	Standard	Conditions						_
Tstd:	298.15		de diving to the second se			RECA	LIBRATION	
Pstd:	760	mm Hg					nnual racalibrati	on nor 100

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

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b: intercept m: slope

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Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C203573 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 June 2020				
Description / 儀器名稱 :	Integrating Sound Level Meter (EQ010)					
Manufacturer / 製造商 :	Brüel & Kjær					
Model No. / 型號 :	2238					
Serial No. / 編號 :	2285721					
Supplied By / 委託者 :	Action-United Environmental Services and	Consulting				
	Unit A, 20/F., Gold King Industrial Building,					
	35-41 Tai Lin Pai Road, Kwai Chung, N.T.					

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 29 June 2020 ٠

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

6 July 2020

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. : C203573 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 using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C200258
CL281	Multifunction Acoustic Calibrator	CDK1806821

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 **Reference Sound Pressure Level**
- 6.1.1.1 Before Self-calibration

	UUT S	Setting	Applied	Value	UUT	
Range	Parameter	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
50 - 130	L _{AFP}	А	F	94.00	1	94.3

6.1.1.2 After Self-calibration

	UUT Setting			Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	Α	F	94.00	1	94.1	± 0.7

6.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Parameter	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
50 - 130	L _{AFP}	А	F	94.00	1	94.1 (Ref.)
				104.00		104.0
				114.00		114.0

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

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

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



Certificate of Calibration 校正證書

Certificate No.: C203573 證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

0 01101100000								
UUT Setting				Applied Value		UUT	IEC 60651	
Range	Parameter	Frequency	Time	Level Freq.		Reading	Type 1 Spec.	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)	
50 - 130	L _{AFP}	А	F	94.00	1	94.1	Ref.	
	L _{ASP}		S			94.1	± 0.1	
	L _{AIP}		Ι			94.1	± 0.1	

6.2.2 Tone Burst Signal (2 kHz)

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

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L_{AFP}	А	F	94.00	31.5 Hz	54.8	-39.4 ± 1.5
					63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.0
			0		250 Hz	85.4	-8.6 ± 1.0
					500 Hz	90.9	-3.2 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.0$
					4 kHz	95.1	$+1.0 \pm 1.0$
					8 kHz	93.0	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.9	-4.3 (+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.

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Certificate of Calibration 校正證書

Certificate No. : C203573 證書編號

6.3.2 C-Weighting

		Setting		Applied Value		UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L _{CFP}	С	F	94.00	31.5 Hz	91.2	-3.0 ± 1.5
					63 Hz	93.4	-0.8 ± 1.5
					125 Hz	94.0	-0.2 ± 1.0
					250 Hz	94.1	0.0 ± 1.0
					500 Hz	94.1	0.0 ± 1.0
					1 kHz	94.1	Ref.
					2 kHz	94.0	-0.2 ± 1.0
					4 kHz	93.3	$\textbf{-0.8} \pm 1.0$
					8 kHz	91.1	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.9	-6.2 (+3.0 ; -6.0)

6.4

Time Averaging

	nine riveruging									
UUT Setting			Applied Value					UUT	IEC 60804	
Range	Parameter	Frequency	Integrating	Frequency	Burst	Burst	Burst	Equivalent	Reading	Type 1
(dB)		Weighting	Time	(kHz)	Duration	Duty	Level	Level	(dB)	Spec.
					(ms)	Factor	(dB)	(dB)		(dB)
30 - 110	L _{Acq}	А	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5
						1/10 ²		90	89.9	± 0.5
			60 sec.			1/10 ³		80	79.9	± 1.0
	×		5 min.			1/104		70	69.7	± 1.0

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2812707

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

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

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

Note :

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

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

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。

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. : C203572 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 June 2020			
Description / 儀器名稱	:	Sound Calibrator (EQ082)				
Manufacturer / 製造商	:	Brüel & Kjær				
Model No. / 型號	:	4231				
Serial No. / 編號	:	2713428				
Supplied By / 委託者	:	Action-United Environmental Services and C	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 : 29 June 2020

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 Q Lee

Engineer

Date of Issue 簽發日期 :

6 July 2020

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.

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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—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



Certificate of Calibration 校正證書

Certificate No. : C203572 證書編號

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

Equipment IDDescriptionCertificate No.CL130Universal CounterC193756CL281Multifunction Acoustic CalibratorCDK1806821TST150AMeasuring AmplifierC201309

- 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			± 0.2
114 dB, 1 kHz	114.1		

5.2 Frequency Accuracy

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

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

Note :

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

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

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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. : C203574 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 June 2020
Description / 儀器名稱 :	Integrating Sound Level Meter (EQ009)	
Manufacturer / 製造商 :	Brüel & Kjær	
Model No. / 型號 :	2238	
Serial No. / 編號 :	2285722	
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 : 29 June 2020

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

KC Lee Engineer

Certified By 核證 Date of Issue 簽發日期 :

6 July 2020

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.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C203574 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 using laboratory acoustic calibrator was performed before the test from 6.1.1.2 to 6.4.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C200258
CL281	Multifunction Acoustic Calibrator	CDK1806821

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Self-calibration

	UUT S	Setting	Applied	Value	UUT	
Range	Parameter	Parameter Frequency		Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
52 - 132	L _{AFP}	А	F	94.00	1	93.8

6.1.1.2 After Self-calibration

		UUT	Setting		Applied	d Value	UUT	IEC 60651
	Range	nge Parameter Frequency		Time	Level Freq.		Reading	Type 1 Spec.
÷ .	(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
	52 - 132	L _{AFP}	А	F	94.00	1	94.0	± 0.7

6.1.2 Linearity

	UU	Γ Setting	Applied	d Value	UUT	
Range	Parameter	Frequency Time		Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
52 - 132	L _{AFP}	Α	F	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

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

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/傅真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

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.



輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C203574 證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

	ÿ										
	UUT	Setting		Applie	d Value	UUT	IEC 60651				
Range	Parameter	Frequency Time		Level	Freq.	Reading	Type 1 Spec.				
(dB)	Weighting Weighting		(dB) (kHz)		(dB) (dB)						
52 - 132	L _{AFP} A F		94.00	1	94.0	Ref.					
	L _{ASP} S		S			94.0	± 0.1				
	L _{AIP} I				94.1	± 0.1					

6.2.2 Tone Burst Signal (2 kHz)

	UUT	Setting		App	lied Value	UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Level Burst		Type 1 Spec.
(dB)		Weighting	Weighting	(dB)	(dB) Duration		(dB)
32 - 112	L _{AFP}	А	F	106.0	106.0 Continuous		Ref.
	L _{AFMax}				200 ms	105.0	-1.0 ± 1.0
	L _{ASP}		S		Continuous		Ref.
	L _{ASMax}				500 ms	102.0	-4.1 ± 1.0

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Level Freq.		Type 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
52 - 132	L _{AFP}	А	F	94.00	31.5 Hz	54.5	-39.4 ± 1.5
					63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.8	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.0$
					4 kHz	95.0	$+1.0 \pm 1.0$
					8 kHz	92.8	-1.1 (+1.5 ; -3.0)
					12.5 kHz	89.7	-4.3 (+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。



輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C203574 證書編號

6.3.2 C-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 60651
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Type 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
52 - 132	L _{CFP}	С	F	94.00	31.5 Hz	90.9	-3.0 ± 1.5
					63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.0
					250 Hz	94.0	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.0
					4 kHz	93.2	-0.8 ± 1.0
					8 kHz	90.9	-3.0 (+1.5 ; -3.0)
					12.5 kHz	87.8	-6.2 (+3.0 ; -6.0)

6.4 Time Averaging

1 mile Aw	ine Averaging										
	UUT Setting				Applied Value					IEC 60804	
Range	Parameter	Frequency	Integrating	Frequency	Burst	Burst	Burst	Equivalent	Reading	Type 1	
(dB)		Weighting	Time	(kHz)	Duration	Duty	Level	Level	(dB)	Spec.	
					(ms)	Factor	(dB)	(dB)		(dB)	
32 - 112	L _{Aeq}	А	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5	
						$1/10^{2}$		90	89.6	± 0.5	
			60 sec.			$1/10^{3}$		80	79.1	± 1.0	
			5 min.			1/104		70	69.2	± 1.0	

Remarks : - UUT Microphone Model No. : 4188 & S/N : 2812706

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 1

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

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

Note :

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

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

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

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Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C200487 證書編號

ITEM TESTED / 送檢I	百百	(Job No. / 序引編號:IC19-1098)	Date of Receipt / 收件日期: 7 January 2020
Description / 儀器名稱	:	Sound Calibrator (EQ089)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NC-75	
Serial No. / 編號	:	34680623	
Supplied By / 委託者	:	Action-United Environmental Services a	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	.Т.
TEST CONDITIONS /	測料	修件	
Temperature / 函庄			Deletive Upmidity / 扫影记录序 · · · · (50 + 25)0/

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 : 22 January 2020

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	: <u>Chenk</u> K P Cheuk Assistant Engineer			
Certified By 核證	K C Lee Engineer	Date of Issue 簽發日期	:	24 January 2020

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. : C200487 證書編號

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

Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C193756 CDK1806821 C181288

- 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	± 0.25	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

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

Note :

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

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

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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

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 為香港認可處執行機關根據認可諮詢委員會建議而接受的

HOKLAS Accredited Laboratory

「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO / IEC 17025 : 2005 – General requirements for the competence 此實驗所符合ISO / IEC 17025 : 2005 –《測試及校正實驗所能力的通用規定》所訂的要求, of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as 獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下述測試類別中的指定 listed in the HOKLAS Directory of Accredited Laboratories within the test category of 測試或校正工作

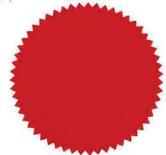
Environmental Testing 環境測試

This laboratory is accredited in accordance with the recognised International Standard ISO / IEC 17025 : 2005. 本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。 This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 這項認可資格演示在指定範疇所需的技術能力及實驗所質量管理體系的運作 quality management system (see joint IAF-ILAC-ISO Communiqué). (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 the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處根據認可處執行機關的權限在此蓋上通用印章

CHAN Sing Sing, Terence, Executive Administrator 執行幹事 陳成城 Issue Date : 5 May 2009 簽發日期:二零零九年五月五日

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

∟ 000552



Appendix F

Event and Action Plan

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2020\November 2020\R0425v2.docx

Event / Action Plan f	for construction dust
-----------------------	-----------------------

Encert	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	ЕТ	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

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

\checkmark	Monitoring Day
	Sunday or Public Holiday

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

 \checkmark

√

Impact Monitoring Schedule for next Reporting Period

✓	Monitoring Day
	Sunday or Public Holiday

25-Dec-20

26-Dec-20

27-Dec-20

28-Dec-20

29-Dec-20

30-Dec-20

31-Dec-20

Fri

Sat

Sun

Mon

Tue Wed

Thu

NMS2, NMS3, NMS-4a, NMS5,

NMS6 and NMS7

CN1, CN2, CN3 and NMS8

Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

24-hour TSP Jointor JUST WEIGHT DATE Nonlocing Data Gr JUST WEIGHT CILAR T RADING AVG TEMP STANDARD PRESS FLANDARD FLANDARD PILTR WEIGHT (s) OULLECTED DUST WEIGHT (solut) 2-hour JUST (solut) 2-Nov-20 26398 23155.68 23179.69 1440.6 31 32 31 2.6.8 1015.5 0.79 1136 2.6992 2.7683 0.057.6 43 3-Nov-20 26372 2303.69 1440 30 32 31 2.6.8 1015.5 0.79 1136 2.6992 2.7439 0.0487 43 19-Nov-20 26455 3227.7 12325.7 1440.6 31 2.3 1.2 1.011.9 0.79 1137 2.6702 2.7043 0.00373 33 25-Nov-20 20206 2351.7 1440.0 30 31 30.5 2.33 1017.2 1.35 1949 2.6678 2.7979 0.0122 78 2-Nov-20 26351 979.02 9160.2 1440.00 30							21 11	JOINT			SULI DATADA					
DAMPE IELAPSED TIME CHART READING TEMP PRESS FLOW RATE VOLUME FILTER WEIGHT (2) COLLECTED TSP 2-Nov-20 26398 23155.68 23179.69 1440.6 31 32 31.5 23.3 1017.2 0.81 1171 2.7107 2.7683 0.0576 49 2-Nov-20 26373 2303.69 123203.69 1440.6 30 32 31 26.8 1015.5 0.79 1136 2.6952 2.7439 0.00487 43 19-Nov-20 26455 23227.7 123251.7 1440 30 32 31 25.3 1011.9 0.80 1152 2.6974 2.7449 0.0473 33 2S-Nov-20 26202 23251.7 1440.0 30 32 31 25.3 1011.9 0.80 1152 2.6974 2.7444 0.047 2-Nov-20 26205 976.06 9792.07 1440.00 30 32 31.0 22.3 1017.2 1.35	24-hour TSE	P Monitoring	g Data for A	AMS1a												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DATE				1E						FLOW RATE		FILTER WI			TSP
7.Nov-20 26207 23179.69 23203.69 1440 30 32 31 26.8 1015.5 0.79 1136 2.6952 2.7439 0.0487 43 13-Nov-20 26273 23203.69 23227.7 1440.6 31 32 31.5 22.2 1017.2 0.81 1173 2.6794 2.7623 0.0714 61 19-Nov-20 26455 3227.7 23217.1 1440 30 32 31 21.1 1018.2 0.80 1152 2.6974 2.7444 0.047 41 24-hor <tsp< td=""> TSTOR TAB for AMS-5 TEMP PRESS TEMP PRES TEMP PRES TEMP PRES TEMP PRES TEMP PRES TEMP PRES 1015.5 1.36 1949 2.6857 2.7979 0.1122 58 2-Nov-20 26205 9816.07 1440.00 30 32 31.0 22.3 1015.5 1.36 1963 2.6978 2.8013 0</tsp<>					· · ·							· · · · ·	INITIAL	FINAL		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2-Nov-20					31				1017.2			2.7107			
19-Nov-20 26455 23227.7 2325.1.7 1440 30 32 31 25.3 1011.9 0.79 1137 2.672 2.7093 0.0373 33 25-Nov-20 26280 2325.7.7 12327.5.7 1440 30 32 31 21.1 1018.2 0.80 1152 2.672 2.7093 0.0373 33 25-Nov-20 26280 2325.7.7 12327.7 1440 30 32 31 21.1 1018.2 0.80 1152 2.672 2.7093 0.0373 33 25-Nov-20 26266 978.0 1717L ELAPSED TIME CHART REJING AVG C(C) (hPa) (m ⁷ min) (sd m ⁷) INITIAL FINAL (gu m ⁷) 2-Nov-20 26265 9816.07 9840.07 1440.00 30 32 31.0 22.9 1016.8 1.37 1975 2.6938 2.8338 0.1400 71 19-Nov-20 26277 9840.07 9840.07 1440.00 30 32 31.0 21.1 1018.2 1.36 1964 2.6938 <td>7-Nov-20</td> <td>26207</td> <td>23179.69</td> <td>23203.69</td> <td>1440</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>0.79</td> <td></td> <td>2.6952</td> <td>2.7439</td> <td></td> <td></td>	7-Nov-20	26207	23179.69	23203.69	1440		-				0.79		2.6952	2.7439		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13-Nov-20	26273	23203.69	23227.7	1440.6	31		31.5	22.2	1017.2	0.81	1173	2.6909	2.7623	0.0714	61
24-hour TSP Monitoring Data for AMS-5 CHART READING AVG ITEMP STANDARD FLOUME CHART READING AVG AIR TEMP STANDARD FLOW RATE VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED TSP 2-Nov-20 26206 9768.06 9792.07 1440.00 30 32 31.0 25.8 1017.2 1.35 1949 2.6857 2.7979 0.1122 58 7-Nov-20 26205 9786.07 1840.00 30 32 31.0 26.8 1015.5 1.36 1963 2.6780 2.8013 0.1233 63 13-Nov-20 26274 9864.07 9864.07 1440.00 30 32 31.0 25.3 1011.9 1.36 1964 2.6890 2.7880 0.0590 30 2S-Nov-20 26274 9864.07 9884.07 1440.00 30 32 31.0 21.1 1018.2 1.38 1980 2.6957 2.7988 0.1031 52 2S-Nov-20 26208 14972.01 1496.00 31.5 32.3	19-Nov-20	26455	23227.7	23251.7	1440	30	32	31	25.3	1011.9	0.79	1137	2.672	2.7093	0.0373	33
DATE NUMBER SAMPLE NUMBER ELAPSED TIME CHART READING TEMP AVG TEMP AVG TEMP AVG PRESS STANDARD FLOW RATE NUMBER AIR VOLUME FILTER WEIGHT (g) VOLUME DUST WEIGHT COLLECTED TSP 24-hr TSP 2:Nov-20 26206 9768.06 9792.07 1440.00 30 31 30.5 23.3 1017.2 1.35 1949 2.6857 2.7979 0.1122 58 7-Nov-20 26265 9816.07 9840.07 1440.00 30 32 31.0 22.3 1011.9 1.36 1963 2.6780 2.8013 0.1233 63 19-Nov-20 26265 9840.07 9840.07 1440.00 30 32 31.0 25.3 1011.9 1.36 1964 2.6890 2.7480 0.0590 30 25-Nov-20 26274 9840.07 9840.07 1440.00 30 32 31.0 21.1 1018.2 1.38 1980 2.6957 2.7988 0.0131 52 24hor TMITAL FINAL	25-Nov-20	26280	23251.7	23275.7	1440	30	32	31	21.1	1018.2	0.80	1152	2.6974	2.7444	0.047	41
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	24-hour TSF	P Monitoring	g Data for A	AMS-5						•		•			•	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	DATE								TEMP	PRESS	FLOW RATE	VOLUME			COLLECTED	TSP
7-Nov-20 26351 9792.02 9816.02 1440.00 30 32 31.0 26.8 1015.5 1.36 1963 2.6780 2.8013 0.1233 63 13-Nov-20 26255 9816.07 9840.07 1440.00 30 32 31.0 22.9 1016.8 1.37 1975 2.6938 2.8338 0.1400 71 19-Nov-20 26274 9840.07 9840.07 1440.00 30 32 31.0 22.3 1011.9 1.36 1964 2.6957 2.7988 0.0590 30 25-Nov-20 26277 9864.07 988.07 1440.00 30 32 31.0 21.1 1018.2 1.38 1980 2.6957 2.7988 0.1031 52 25-Nov-20 26208 Pat for XMS-5 TimTIAL FINAL (min) MIN AVG (°C) (hPa) (MRATE VOLUME FILTER COLECTED VOLUETETE 24-hr TSN 0.493 1.12 1613 2.6718 2.7715 0.0997 62 2-Nov-20 26201 14996.02 </td <td></td> <td>· · · · ·</td> <td>· · · · ·</td> <td></td> <td></td> <td></td> <td></td>											· · · · ·	· · · · ·				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																
25-Nov-20 26277 9864.07 988.07 1440.00 30 32 31.0 21.1 1018.2 1.38 1980 2.6957 2.7988 0.1031 52 Z4-hour TSP Monitoring Data for AMS-6 DATE SAMPLE NUMBER ELAPSED TIME CHART RE-MING AVG AIR PRESS STANDARD FLOW RATE VOLUME FLUTER WEIGHT COLLECTED UST WEIGHT TSP 2-Nov-20 26208 14972.01 14996.02 1440.00 30 32 31.0 26.8 1015.5 1.10 1590 2.6718 2.7715 0.0997 62 7-Nov-20 26201 14996.02 1504.02 1440.00 30 32 31.0 26.8 1015.5 1.10 1590 2.6711 2.7001 0.1030 65 13-Nov-20 26275 1504.02 1508.02 1440.00 30 32 31.0 25.3 1011.9 1.10 1591 2.6679 2.7632 0.00835 52	13-Nov-20											1975	2.6938	2.8338		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	19-Nov-20	26274	9840.07	9864.07	1440.00	30	32	31.0	25.3	1011.9	1.36	1964	2.6890	2.7480	0.0590	30
DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG TEMP AVG AIR PRESS STANDARD FLOW RATE AIR VOLUME FILTER W=IGHT (g) DUST WEIGHT COLLECTED 24-hr TSP 2-Nov-20 26208 14972.01 14996.02 1440.60 31 32 31.5 23.3 1017.2 1.12 1613 2.6718 2.7715 0.0997 62 7-Nov-20 26000 14996.02 15020.02 1440.00 30 32 31.0 26.8 1015.5 1.10 1590 2.6871 2.7901 0.1030 65 13-Nov-20 26275 15044.02 15068.02 1440.00 30 32 31.0 25.3 1011.9 1.10 1590 2.6938 2.7343 0.0405 25 25-Nov-20 26275 15044.02 15068.02 1440.00 30 32 31.0 21.1 1018.2 1.11 1601 2.6979 2.7866 0.0907 57 24-hor NOTEN Date for AMS-7 CHAT T READING <td< td=""><td>25-Nov-20</td><td>26277</td><td>9864.07</td><td>9888.07</td><td>1440.00</td><td>30</td><td>32</td><td>31.0</td><td>21.1</td><td>1018.2</td><td>1.38</td><td>1980</td><td>2.6957</td><td>2.7988</td><td>0.1031</td><td>52</td></td<>	25-Nov-20	26277	9864.07	9888.07	1440.00	30	32	31.0	21.1	1018.2	1.38	1980	2.6957	2.7988	0.1031	52
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	24-hour TSF	P Monitoring	g Data for A	AMS-6												
1 <td>DATE</td> <td></td> <td></td> <td>APSED TIM</td> <td>1E</td> <td>CHAR</td> <td>RT REA</td> <td>DING</td> <td></td> <td></td> <td></td> <td></td> <td>FILTER WI</td> <td>EIGHT (g)</td> <td></td> <td></td>	DATE			APSED TIM	1E	CHAR	RT REA	DING					FILTER WI	EIGHT (g)		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					· · · ·	MIN	MAX					(std m ³)	INITIAL	FINAL		$(\mu g/m^3)$
13-Nov-20 26271 15020.02 15044.02 1440.00 30 32 31.0 22.9 1016.8 1.11 1597 2.6797 2.7632 0.0835 52 19-Nov-20 26275 15044.02 15068.02 1440.00 30 32 31.0 25.3 1011.9 1.10 1591 2.6978 2.7343 0.0405 25 25-Nov-20 26278 15068.02 15092.02 1440.00 30 32 31.0 21.1 1018.2 1.11 1601 2.6978 2.7343 0.0405 25 25-Nov-20 26278 15068.02 15092.02 1440.00 30 32 31.0 21.1 1018.2 1.11 1601 2.6979 2.7886 0.0907 57 24-hor NOR FLXPSED TIME CHART READING AVG TEMP STANDARD PRESS STANDARD FLOW RATE AIR VOLUME FILTER WEIGHT Output Quert Weight COLLECTED Quert Weight (ug/m ³) 2-Nov-20 26364 1038.17 10332.18 1040.0 40 42 41.0 <td>2-Nov-20</td> <td>26208</td> <td>14972.01</td> <td>14996.02</td> <td>1440.60</td> <td>31</td> <td>32</td> <td>31.5</td> <td>23.3</td> <td>1017.2</td> <td>1.12</td> <td>1613</td> <td>2.6718</td> <td>2.7715</td> <td>0.0997</td> <td>62</td>	2-Nov-20	26208	14972.01	14996.02	1440.60	31	32	31.5	23.3	1017.2	1.12	1613	2.6718	2.7715	0.0997	62
	7-Nov-20	26400	14996.02	15020.02	1440.00	30	32	31.0	26.8	1015.5	1.10	1590	2.6871	2.7901	0.1030	65
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13-Nov-20	26271	15020.02	15044.02	1440.00	30	32	31.0	22.9	1016.8	1.11	1597	2.6797	2.7632	0.0835	52
24-hour TSP Monitoring Data for AMS-7 24-hour TSP Monitoring Data for AMS-7 DATE SAMPLE NUMBER ELAPSED TIME CHART READING AVG TEMP STANDARD PRESS AIR VOLUME FILTER WEIGHT (g) DUST WEIGHT COLLECTED 24-hr TSP (µg/m ³) 2-Nov-20 26364 10308.17 10332.18 1440.60 40 42 41.0 23.3 1017.2 0.96 1378 2.6670 2.7659 0.0989 72 7-Nov-20 26397 10332.18 1040.00 40 42 41.0 26.88 1015.5 0.95 1367 2.7121 2.8660 0.1539 113 13-Nov-20 26272 10356.18 1040.00 40 42 41.0 22.2 1017.2 0.96 1381 2.6804 2.8133 0.1329 96 19-Nov-20 26456 10380.18 1040.00 38 40 39.0 25.3 1011.9 0.90 1293 2.6707 2.768<	19-Nov-20	26275	15044.02	15068.02	1440.00	30	32	31.0	25.3	1011.9	1.10	1591	2.6938	2.7343	0.0405	25
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	25-Nov-20	26278	15068.02	15092.02	1440.00	30	32	31.0	21.1	1018.2	1.11	1601	2.6979	2.7886	0.0907	57
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	24-hour TSE	P Monitoring	g Data for A	AMS-7						•		•	•	•	•	
Constraint FINAL FINAL FINAL FINAL FINAL FINAL FINAL FINAL (µgm)	DATE				1E			DING	TEMP				FILTER WI			
7-Nov-20 26397 10332.18 10356.18 1440.00 40 42 41.0 26.8 1015.5 0.95 1367 2.7121 2.8660 0.1539 113 13-Nov-20 26272 10356.18 10380.18 1440.00 40 42 41.0 22.2 1017.2 0.96 1381 2.6804 2.8133 0.1329 96 19-Nov-20 26456 10380.18 10404.18 1440.00 38 40 39.0 25.3 1011.9 0.90 1293 2.6707 2.7368 0.0661 51					· · · ·											
13-Nov-20 26272 10356.18 10380.18 1440.00 40 42 41.0 22.2 1017.2 0.96 1381 2.6804 2.8133 0.1329 96 19-Nov-20 26456 10380.18 10404.18 1440.00 38 40 39.0 25.3 1011.9 0.90 1293 2.6707 2.7368 0.0661 51																
19-Nov-20 26456 10380.18 10404.18 1440.00 38 40 39.0 25.3 1011.9 0.90 1293 2.6707 2.7368 0.0661 51	7-Nov-20	26397	10332.18	10356.18	1440.00			41.0		1015.5	0.95	1367	2.7121	2.8660	0.1539	113
	13-Nov-20	26272				-		41.0		1017.2	0.96	1381	2.6804	2.8133	0.1329	
25-Nov-20 26279 10404.18 10428.18 1440.00 38 40 39.0 21.1 1018.2 0.91 1308 2.6938 2.7687 0.0749 57	19-Nov-20	26456	10380.18	10404.18	1440.00	38	40	39.0	25.3	1011.9	0.90	1293	2.6707	2.7368	0.0661	51
	25-Nov-20	26279	10404.18	10428.18	1440.00	38	40	39.0	21.1	1018.2	0.91	1308	2.6938	2.7687	0.0749	57



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Measu	uremer	nt Resul	ts (dB)	of NMS	S2																
	Start	1st	Leq (51	nin)	2nd	Leq (5	min)	3rd	l Leq (5	imin)	4tl	n Leq (5	imin)	5tl	h Leq (5min)	6t	h Leq (5min)	Lag20min	Limit
Date	Time	Leq, dB(A)		L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)			±/	· ·	/	- 1/		· .	· · ·			Leq30min, dB(A)	Level dB(A)
3-Nov-20	14:56	64.1	67.2	58.3	64.4	67.4	58.6	60.6	63	55.3	61.1	62.5	56.5	58.9	60.3	57.8	3 59.7	61.6	5 58.4	62	70
9-Nov-20	11:03	64.5	66.3	62.1	65.2	66.9	63.2	63.4	65.1	61.8	63.8	64.6	62	64.2	67.8	63.1	68.1	72.2	2 65.3	65	70
20-Nov-20	11:13	65.7	67.3	63.2	64.8	66.5	61.7	69.1	72.5	64.8	68	70	64	66.3	68.2	63.8	67.1	69.1	64.2	67	70
26-Nov-20	11:03	64.5	67.8	59.2	63.8	67	58.5	68.5	70	64.5	67.5	70.1	63.8	65.3	67.2	62.5	65.9	68.1	62.9	66	70
Noise Meas		1st]	ts (dB) Leq (5n			Leq (5n	nin)	3rd]	Leq (5n	nin)	4th]	Leq (5n	nin)	5th I	Leq (5n	nin)	6th I	Leq (5n	nin) T	0.~ 20min	Limit
Date	Start Time	Leq,	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	dB(A)	Level dB(A)
3-Nov-20	9:30	62.3	61.5	60.3	64.4	66.3	62.7	63.8	64.7	62.3	62.9	65.2	60.4	63.4	64.5	62.8	64.6	66.8	63.2	64	75
9-Nov-20	14:06	67.1	68.2	64.5	66.3	67.8	63.2	67.5	69.0	64.8	65.7	66.6	62.8	63.5	66.2	60.7	65.3	67.1	62.6	66	75
20-Nov-20	14:20	66.6	67.3	61.0	68.1	70.8	64.8	69.2	71.6	65.1	66.9	68.9	61.4	65.5	67.2	60.2	66.5	67.1	60.8	67	75
26-Nov-20	14:10	67.2	69.8	60.8	66.3	68.7	59.7	66.7	69.0	60.0	65.8	68.0	58.9	68.7	70.0	62.3	69.1	70.5	65.2	67	75
Noise Mea	sureme Start	1st	Leq (5r	nin)	2nd	Leq (5	· · · ·		l Leq (5	,		n Leq (5	1		h Leq (h Leq (ţ.	-Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,		/	Leq,								· .	· •		$, L90, \\ dB(A)$	$\overline{dR}(A)$	Level dB(A)

Date	Time	Leq,	L10,	L90,	Leq,	LIU,	L90,	Leq,	L10,	L90,	dB(A)	Level									
	1 mie	dB(A)	uD(A)	dB(A)																	
3-Nov-20	12:45	63.8	65.5	61.8	62.3	63.6	60.4	64	65.5	62.3	69.1	70.2	67.3	68.8	71	68	70.5	72.1	69.2	67	75
9-Nov-20	9:23	66.3	67.8	64.6	66.8	68.4	64.9	68.9	69	64.7	66.8	68.1	65.2	66.4	67.5	65.1	66.6	67.9	65.1	67	75
20-Nov-20	9:30	62.3	63.9	60	62.7	63.8	59	59.9	61.4	58	60.1	62.3	57.3	59.8	61.7	57.6	60.6	62.7	57.6	61	75
26-Nov-20	9:23	61.7	63	56.6	67.9	65.2	59.9	62.9	65	58.1	61.4	63.1	58.6	64.1	65.6	61.2	64.7	66.9	62	64	75

Noise Measu	ırement	Result	s (dB) o	f NMS5	5																
	Start Leq, L10, L90, L90, L90, L90, L90, L90, L90, L9														Limit						
Date		1/		/	1/	-)	/	1/	/		1/	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	- /	Level
	TIME	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB (A)	dB(A)	ub (<i>m</i>)	dB(A)										
3-Nov-20	14:07	67.1	69.2	64.6	66.8	68.1	64	67.4	69.5	65.2	68	70.2	66.5	65.9	67.8	63.7	66.7	68.3	65.5	67	75
9-Nov-20	10:17	67.8	68.8	66.6	67.5	68.6	66.3	68.2	69.2	67.2	68	68.7	67.1	67.9	69	66.9	68.4	70	66.5	68	75
20-Nov-20	10:20	62.4	64	60.4	60.9	62.3	58.9	63.3	64.7	59.9	63.6	63.5	59.7	61.6	63	59.9	61.8	63.6	59.5	62	75
26-Nov-20	10:17	63.9	64.8	62.7	63.9	65.1	62.4	63.1	64.7	61.5	62.5	63.6	61.3	63.2	64.3	61.5	63.6	64.6	62.4	63	75



Noise Measu	ıremen	nt Resul	ts (dB)	of NMS	56																
	Stant	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (5n	nin)	5th	Leq (5n	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-Nov-20	10:13	70.4	73.1	65.5	69.7	72.6	64.8	67.3	70.2	63.2	66.6	69.5	62.1	67.4	69.2	64.6	70.1	72.3	66.2	69	75
9-Nov-20	14:41	70.6	73	66.9	71.9	76	67.9	73.9	77.1	66.2	70	72	67.2	72.1	76.1	66.2	71.3	76	64.5	72	75
20-Nov-20	15:12	63.4	65.4	60.7	65.6	70.1	57.7	60.2	61.7	56.9	61.3	63.2	59	61.7	63.4	59.2	59.6	61.3	57.5	62	75
26-Nov-20	14:43	63.1	64	60.1	62.4	64	59.8	61.9	63.7	59.6	62.5	64.1	60	63.8	66	60.7	62.7	64.7	60.2	63	75

Noise Measu	uremei	nt Resul	lts (dB)	of NMS	S7																
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$																				
	te $\frac{\text{Start}}{\text{Time}}$ Leq, L10, L90, Leq. L90, L90, Leq. L90, L90, L90, L90, L90, L90, L90, L90,																				
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $																				
3-Nov-20	11:00	69.5	72.1	65.4	70.2	73.5	65.8	68.1	70.7	63.8	67.5	69.7	63.2	66.7	68.3	64.5	67.1	68.7	64.8	68	75
9-Nov-20	15:27	66.1	68.3	63.2	66.8	68.8	63.9	65.8	67.4	63.6	68.4	71.3	63.3	66.1	68.2	63.3	66.7	69.2	63.3	67	75
20-Nov-20	16:08	55.2	57.4	51.5	55.7	58.4	51.9	54.6	57	51.7	55.8	58.2	51.6	64	58.2	53.7	57.2	59.2	53.2	59	75
26-Nov-20	15:30	61.2	63.9	56.4	60.5	63.2	56.7	60.2	62.5	56.3	60.9	63.4	57.8	60.7	63.7	56.3	60.7	63.4	56.7	61	75

Noise Measu	ıremen	t Resul	ts (dB)	of NMS	58																
	Start	1st]	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	nin)	Leg30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
6-Nov-20	14:09	62	64.7	58.6	63.8	67.3	56.8	62	64.9	57.4	61.9	63.1	58.4	63.6	65.3	58.6	61.1	66	59.1	63	75
12-Nov-20	16:09	57.2	59.5	52.9	58.5	59.8	54	56.8	58.9	53.4	60.3	61.9	55.1	62.2	64.7	56.8	57.9	59.5	53.3	59	75
18-Nov-20	10:11	61.5	63.8	51.9	61	64	52.8	59.3	62.7	55.9	57.7	61.6	55.1	58.7	63.1	54	60.7	64.6	55.2	60	75
24-Nov-20	16:27	60.4	61.9	57.8	61.2	62.9	58.9	61.9	64.7	58.6	63	66.3	59.2	62	65.3	58.3	63.5	66.2	59.6	62	75
30-Nov-20	11:45	61.7	64.5	58.6	59.8	62.1	56.5	60.2	62.4	57.6	61.5	62.5	59.7	60.7	63.7	57	59.5	61.2	55.5	61	75

NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measu	uremen	nt Resul	lts (dB)	of CN1																	
	Stort	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	TIME	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
6-Nov-20	15:36	64.7	65.3	60.3	61.6	61.2	59.5	61.5	60.5	59.7	63	63.8	58.5	61	60.8	57.2	58.5	59.7	56.5	62	70
12-Nov-20	13:30	65.2	66.1	63.9	66.1	68	64.8	66.3	67.8	64.2	65.1	66.9	62.2	63.5	66.2	61.4	65.6	68.2	63.3	65	70
18-Nov-20	14:21	65.9	67.8	62.9	65.2	67.5	62	65.9	67.8	63.6	64.2	66.3	61.6	65.3	67.7	62.6	64.5	66.3	61.9	65	70
24-Nov-20	14:12	66.6	68.7	63.4	66	68.2	63.2	66.7	68.6	63.4	66.4	68.5	63.5	67	69.2	63.7	65.3	67.1	62.7	66	70

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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 (November 2020)



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30-Nov-20	10:49	68.8	70.6	65.7	67.2	69.1	65.1	67.6	69.5	65.3	66.9	69.5	64.3	65.4	67.6	63.8	65.7	68	63.2	67

Noise Measu	uremen	t Resul	lts (dB)	of CN2	1																
	Start	1st	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (51	min)	6th	Leq (51	nin)	Log20min	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	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)
6-Nov-20	14:59	55.7	58.3	52.3	54.6	56.2	51.5	56.5	58.5	52.7	57	59.6	53.5	58	60.8	53.2	57.5	61.7	54.5	57	70
12-Nov-20	14:17	60.1	60.8	55.3	62.8	64.3	56.3	60.5	61.3	55.8	62.2	63.8	58.3	62.7	64.8	58.3	60.1	61.3	58.8	62	70
18-Nov-20	13:39	58.9	59.6	58	61.9	62.1	57	58.6	59.2	56.8	58.7	59.4	57.2	59.5	60	57.8	57	58.5	56.6	59	70
24-Nov-20	14:58	66.2	68.3	62.2	65.5	67.5	62.3	62.7	63.5	61.8	63.9	65.7	61.8	64.3	65.8	61.7	63.8	65.4	62.4	65	70
30-Nov-20	10:10	62.8	65.7	56.4	64.6	65.9	58.6	65.7	68.2	60.3	62.1	64.3	55.8	60	61.9	54.2	62.3	63.1	56	63	70

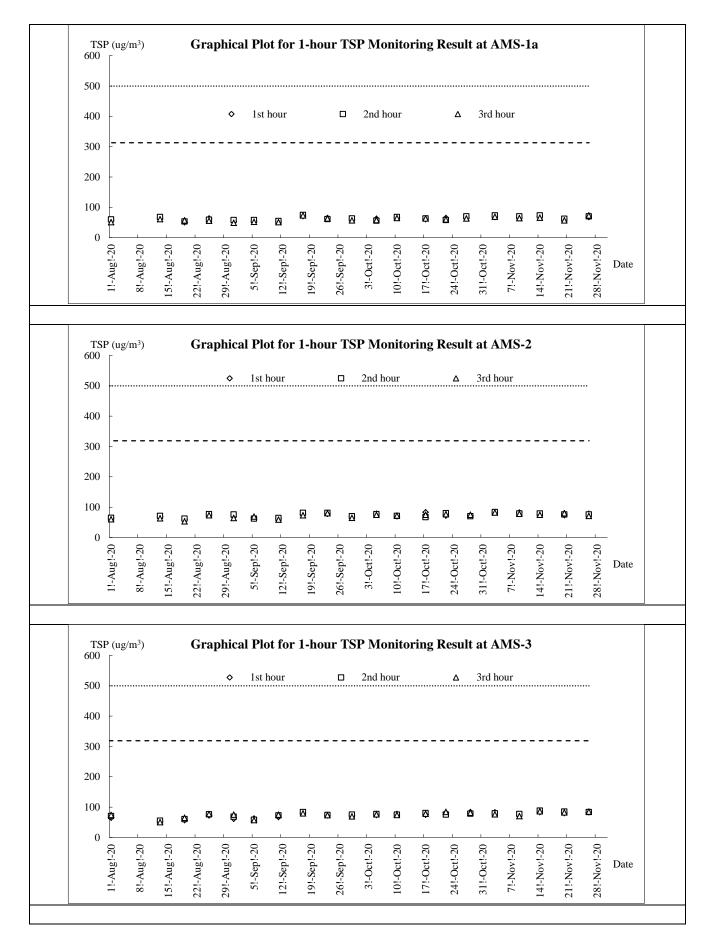
Noise Measu	uremei	nt Resul	lts (dB)	of CN3	;																
	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (51	nin)	Log20min	Limit
	Start Time	Leq,		L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,		L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)			dB(A)	. ,	dB(A)
6-Nov-20	13:20	64.2	66.5	62.3	65.4	66.9	64.1	62.5	65.2	60.5	62.1	64	60.8	63.5	64.7	61.5	63.9	66.7	62.6	64	75
12-Nov-20	15:03	63.3	64.5	59	65.2	66.9	58.5	62	65.5	60	60.7	65.3	58.5	63	67.2	59.9	60.1	64.6	59.4	63	75
18-Nov-20	10:55	63	67.4	58.8	66.8	70.9	60.8	67.3	70.8	61	67.7	70.6	62.1	68.9	71.6	61.3	67.9	72.9	61.6	67	75
24-Nov-20	15:40	63.6	66.2	58.3	63.4	66.4	58.1	64.6	67.7	58.2	63	65.7	56	62.6	65.9	55.6	64	67.2	57.7	64	75
30-Nov-20	9:13	66.8	70.2	61.8	65.9	67.3	64.5	64.8	66.5	62.8	65.2	66.5	63.8	63.6	67.5	63.2	69.6	73.1	64.8	66	75

Appendix I

Graphical Plots for Monitoring Result



Air Quality – 1-hour TSP

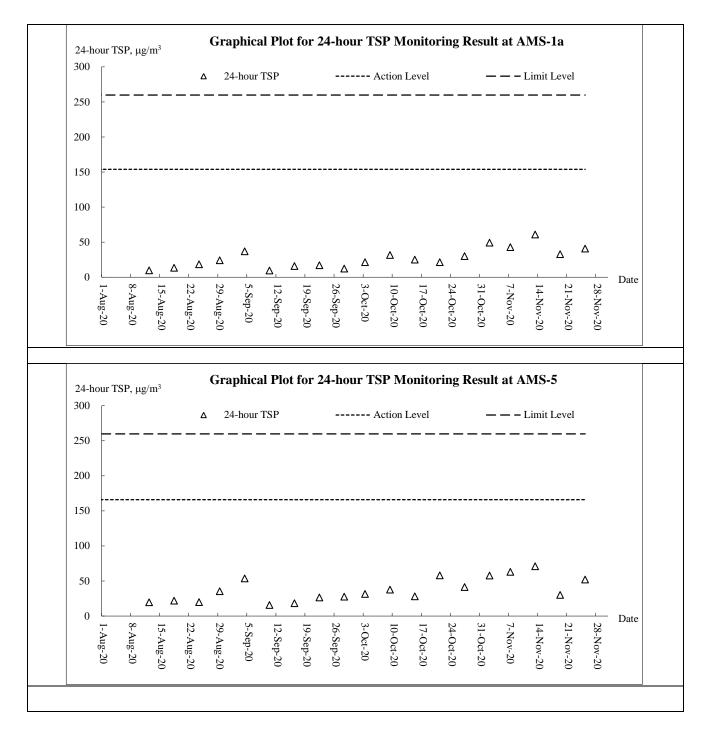




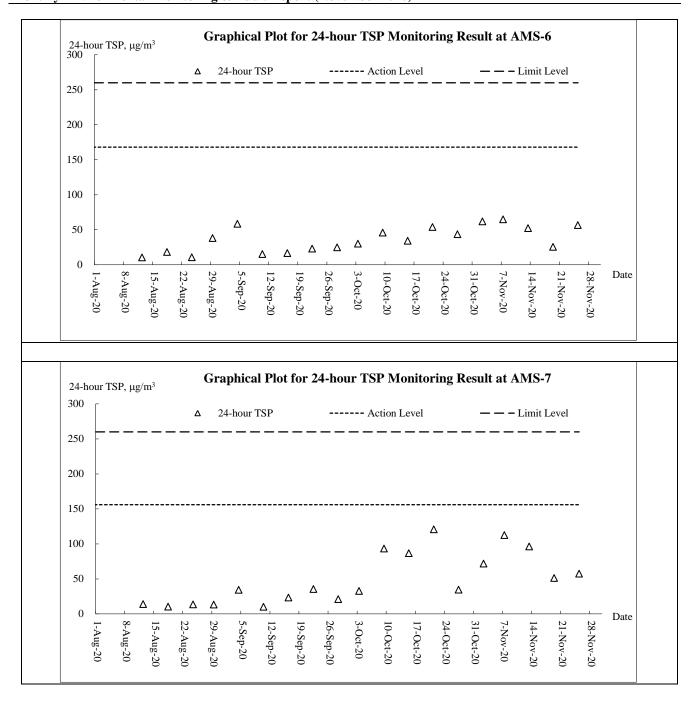
Graphical Plot for 1-hour TSP Monitoring Result at AMS-5 TSP (ug/m³) 600 1st hour 2nd hour 3rd hour Δ 500 400 300 200 100 ٥ ∅ ۵ Μ ₽ ⊠ Ø 卤 ₿ ₪ Ø ⊠ Ø ⋈ ₫ ⋔ ۵ 0 15!-Aug!-20 22!-Aug!-20 29!-Aug!-20 5!-Sep!-20 8!-Aug!-20 12!-Sep!-20 19!-Sep!-20 10!-Oct!-20 17!-Oct!-20 24!-Oct!-20 14!-Nov!-20 21!-Nov!-20 28!-Nov!-20 1!-Aug!-20 26!-Sep!-20 3!-Oct!-20 31!-Oct!-20 7!-Nov!-20 Date Graphical Plot for 1-hour TSP Monitoring Result at AMS-6 TSP (ug/m³) 600 1st hour 2nd hour 3rd hour 0 Δ 500 400 300 200 100 卤 ≙ 卤 ⊠ ٥ ₿ ₽ ۵ Ø ∅ 囟 Ŵ Ø ⊠ ∅ Ŵ 卤 ⊠ 0 29!-Aug!-20 8!-Aug!-20 15!-Aug!-20 22!-Aug!-20 5!-Sep!-20 12!-Sep!-20 1!-Aug!-20 19!-Sep!-20 26!-Sep!-20 3!-Oct!-20 10!-Oct!-20 17!-Oct!-20 24!-Oct!-20 31!-Oct!-20 7!-Nov!-20 [4!-Nov!-20 21!-Nov!-20 28!-Nov!-20 Date Graphical Plot for 1-hour TSP Monitoring Result at AMS-7 TSP (ug/m³) 600 1st hour 2nd hour 3rd hour ٥ Δ 500 400 300 200 100 ٥ Φ 卤 Ø ø ₿ Øø 囟 Ô ⊠ 卤 Ø ∅ ⋈ ٥ ⊠ 卤 0 15!-Aug!-20 22!-Aug!-20 29!-Aug!-20 5!-Sep!-20 [2!-Sep!-20 1!-Aug!-20 8!-Aug!-20 19!-Sep!-20 26!-Sep!-20 3!-Oct!-20 10!-Oct!-20 17!-Oct!-20 24!-Oct!-20 31!-Oct!-20 14!-Nov!-20 21!-Nov!-20 28!-Nov!-20 7!-Nov!-20 Date



Air Quality – 24-hour TSP

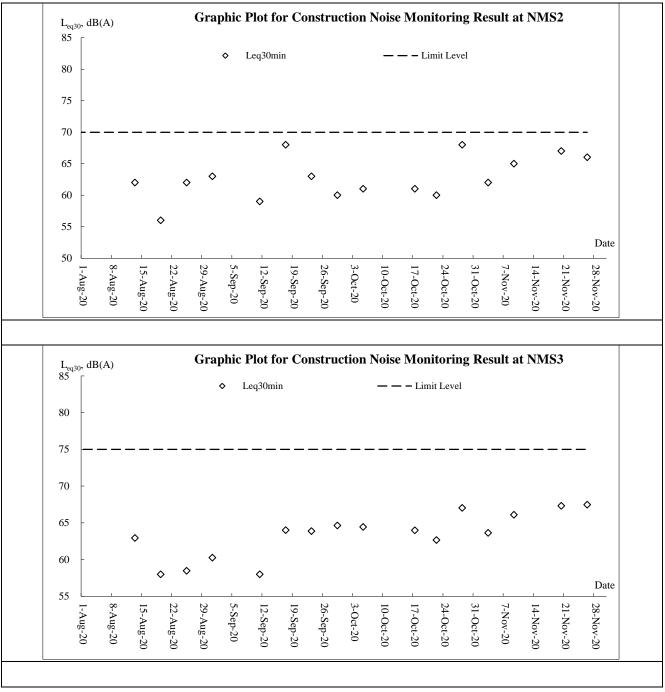




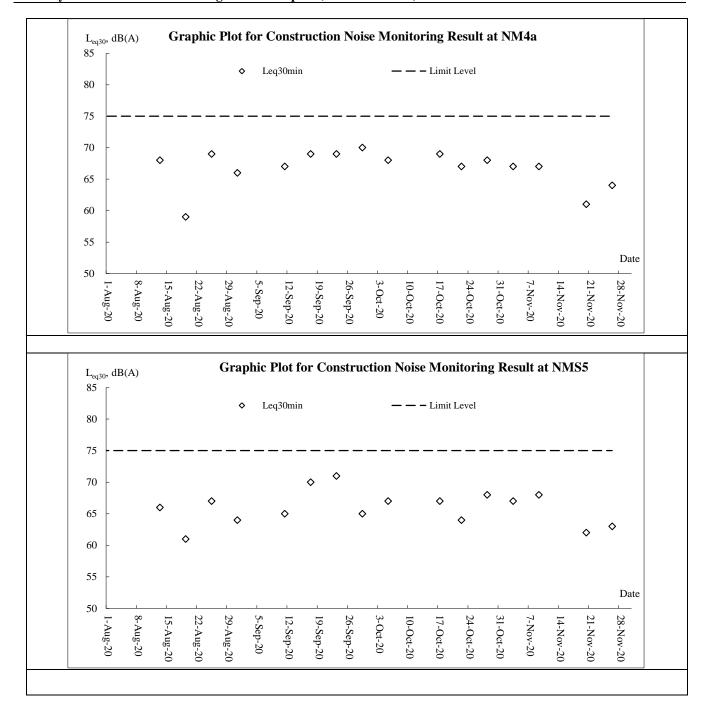


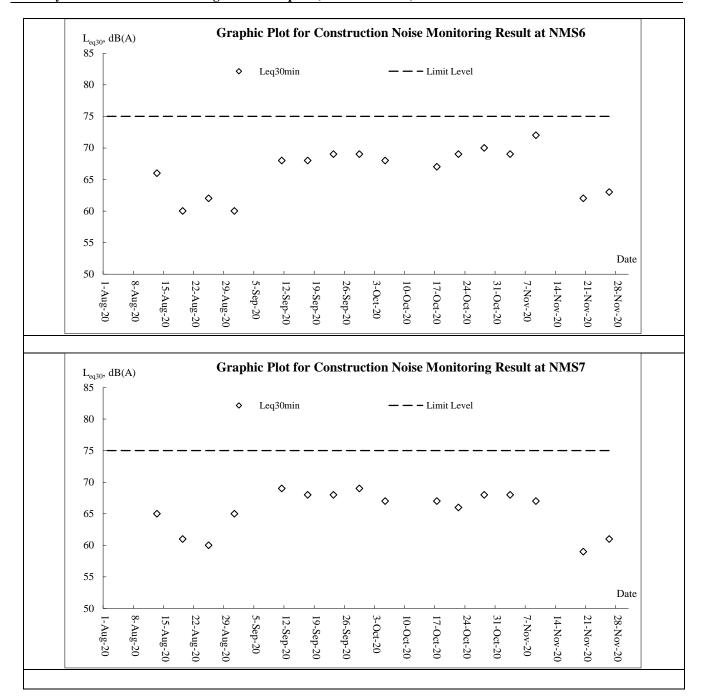




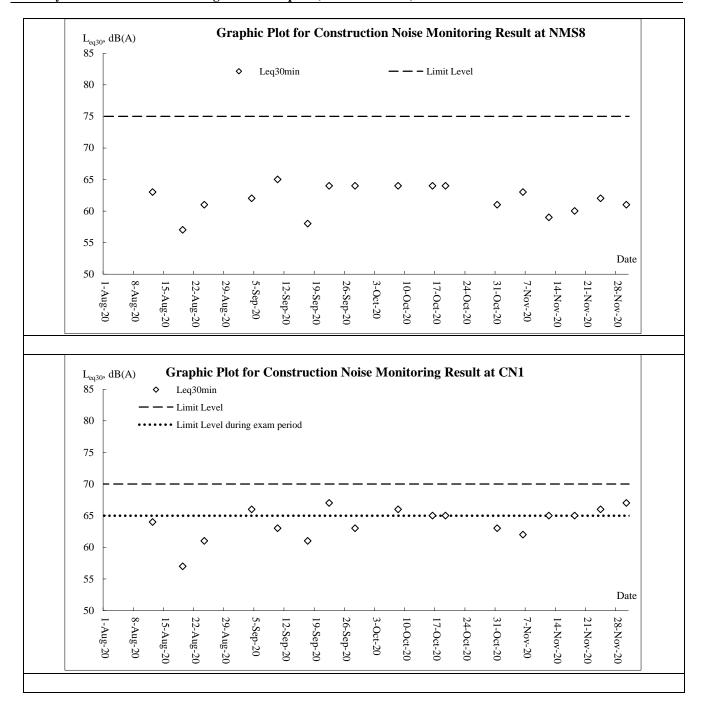




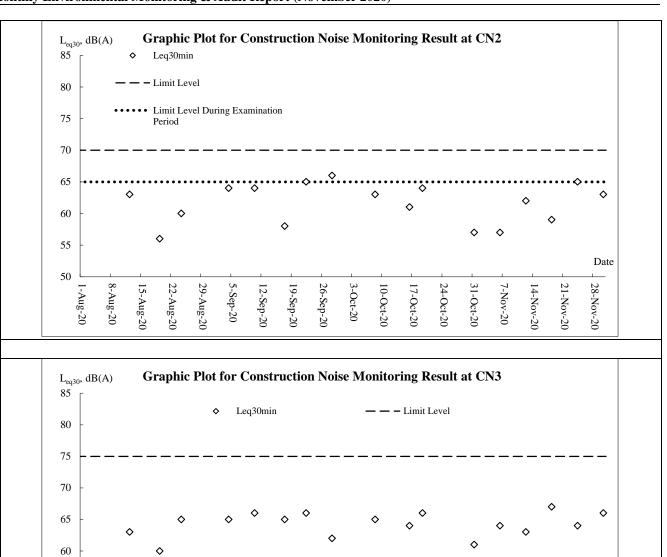




AUES



AUES



3-Oct-20

24-Oct-20

17-Oct-20

10-Oct-20

31-Oct-20

7-Nov-20

AUES

Date

28-Nov-20

21-Nov-20

14-Nov-20

5-Sep-20

19-Sep-20

12-Sep-20

26-Sep-20

55

50

1-Aug-20

8-Aug-20

15-Aug-20

22-Aug-20

29-Aug-20



Appendix J

Meteorological Data



Date		Weather	Total Rainfall (mm)	Kwun Tong Station	Kai Tak Station		King's Park Station
				Mean Air Temp. (°C)	Wind Speed (km/h)	Wind Direction	(%)
1-Nov-20	Sun	Mainly fine and dry in the afternoon	0	23.9	10.7	SE	69.2
2-Nov-20	Mon	Moderate to fresh northerly winds, becoming easterlies later.	0	25.1	7.5	N/NE	63.7
3-Nov-20	Tue	Fine. Dry in the afternoon.	0.1	22.7	8.7	N/NE	64.2
4-Nov-20	Wed	Moderate north to northeasterly winds.	0.4	22.3	13.2	E/SE	67
5-Nov-20	Thu	Mainly fine. Dry during the day.	0	22.1	15.5	E	65
6-Nov-20	Fri	Moderate to fresh northeasterly winds.	0	25	7.5	W/NW	65
7-Nov-20	Sat	One or two light rain patches tonight.	0	27.1	9.5	W/NW	62.5
8-Nov-20	Sun	Fine. Dry in the afternoon.	0	24.1	10	E/NE	61.2
9-Nov-20	Mon	Mainly fine and dry in the afternoon	Trace	23.2	9.2	N/NE	57
10-Nov-20	Tue	Moderate to fresh east to northeasterly winds.	0	22	10.2	N/NE	57.5
11-Nov-20	Wed	Fine and dry.	0	21.9	10.7	Е	60.5
12-Nov-20	Thu	Moderate northeasterly winds, fresh offshore.	0	21.5	11.7	E/SE	57
13-Nov-20	Fri	Mainly cloudy with one or two rain patches.	0.4	21.6	9.5	E/NE	59.5
14-Nov-20	Sat	Hot with sunny periods	0	22.4	10.2	E/NE	67.2
15-Nov-20	Sun	Mainly fine. Becoming cloudy later tomorrow.	Trace	22.6	17.5	E/SE	71.7
16-Nov-20	Mon	Moderate easterly winds,	0	24.3	12.5	E/SE	69
17-Nov-20	Tue	Fine. Dry in the afternoon.	Trace	23.7	15.7	Е	73.7
18-Nov-20	Wed	Warm with sunny periods in the next couple of days.	1	25.9	13.7	E/SE	74
19-Nov-20	Thu	Light winds, strengthening from the east overnight with one or two light rain and mist patches.	Trace	25.9	8.5	SE	83
20-Nov-20	Fri	Hot with sunny periods	0	26.1	10	SE	77.7
21-Nov-20	Sat	Fine and dry.	2	22.7	12.5	E/SE	69.5
22-Nov-20	Sun	Fine and dry.	1.1	24.7	10.7	E/SE	74
23-Nov-20	Mon	Moderate northeasterly winds, fresh offshore.	Trace	22	19.2	Е	84.5
24-Nov-20	Tue	Mainly cloudy with one or two rain patches.	0	23.3	10	E/SE	73.5
25-Nov-20	Wed	Moderate to fresh east to northeasterly winds.	0	23.7	57.5	E/SE	69.5
26-Nov-20	Thu	Moderate north to northeasterly winds, occasionally fresh.	0	24.6	11.7	E/SE	69.2
27-Nov-20	Fri	Fine and dry. Moderate north to northeasterly winds, occasionally fresh.	0	23.1	10	W/NW	69.5
28-Nov-20	Sat	Mainly cloudy. Cool with one or two light rain patches in the morning.	0	19.3	9	W/NW	61
29-Nov-20	Sun	Dry with sunny periods in the afternoon.	0	19.3	8.5	W/NW	54.2
30-Nov-20	Mon	oderate to fresh northerly winds.	0.1	18.8	10	W/NW	57

Appendix K

Waste Flow Table

Contract No.: NE/2016/01

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

i -	Ĩ	A - t 1 O	tition of Incent C.9.1	Meteriale Comm	4		Actual Quantities of C&D Wastes Generated Monthly						
		Actual Quan	tities of Inert C&I	D Materials Genera	ted Monthly			Actual Quantities	of C&D wastes C	senerated 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	129.197	22.841	126.974	0.924	1.299	0.000	0.005	0.025	0.007	0.000	0.141		
Feb	110.670	2.524	109.300	1.240	0.130	0.000	0.000	0.000	0.000	0.000	0.205		
Mar	161.220	2.884	153.483	7.567	0.170	0.000	0.007	0.000	0.008	0.000	0.169		
Apr	47.464	1.609	35.093	11.120	1.251	1.103	0.004	0.575	0.003	0.000	0.120		
May	71.700	0.723	58.845	12.190	0.665	0.000	0.000	0.142	0.000	0.000	0.087		
Jun	73.326	1.753	61.073	12.146	0.107	0.000	0.000	0.000	0.000	0.000	0.096		
Sub-total	593.577	32.334	544.768	45.187	3.622	1.103	0.016	0.742	0.018	0.000	0.818		
Jul	40.409	0.735	27.864	11.906	0.639	0.000	0.023	0.529	0.019	0.000	0.230		
Aug	30.703	1.775	19.691	10.472	0.540	0.000	0.000	0.000	0.000	0.000	0.150		
Sep	13.692	0.262	5.374	8.195	0.123	0.000	0.003	0.020	0.001	0.000	0.147		
Oct	31.429	0.000	21.336	9.913	0.180	0.019	0.013	0.000	0.011	0.000	0.460		
Nov	20.847	0.234	4.198	15.813	0.836	0.000	0.000	0.189	0.000	0.166	1.537		
Dec	0.000												
Total	730.657	35.340	623.231	101.486	5.940	1.122	0.055	1.480	0.049	0.166	3.342		

Monthly Summary Waste Flow Table for <u>2020</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 (0.88 kg/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.

Appendix II

Contract No. : <u>NE/2016/05</u>

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

Monthly Summary Waste Flow Table for 2020 (year)

	[PS Clause 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	0.397	0	0.113	0	0.150	0	0	0	0	0	0.134	
Feb	0.237	0	0.071	0	0.118	0	0	0	0	0	0.048	
Mar	0.615	0	0	0	0.405	0	0	0	0	0	0.21	
Apr	0.608	0	0	0	0.528	0	0	0	0	0	0.08	
May	0.420	0	0.05	0	0.260	0	0	0	0	0	0.11	
June	0.357	0	0.017	0	0.25	0	0	0	0	0	0.09	
Sub-total		0		0		0	0	0	0	0		
July	0.24	0	0.03	0	0.10	0	0	0	0	0	0.11	
Aug	0.37	0	0.04	0	0.18	0	0	0	0	0	0.15	
Sept	0.15	0	0	0	0.09	0	0	0	0	0	0.06	
Oct	0.15	0	0	0	0.07	0	0	0	0	0	0.08	
Nov	0.12	0	0	0	0.04	0	0	0	0	0	0.08	
Dec		0		0		0	0	0	0	0		
Total	3.136	0	0.321	0	2.191	0	0	0	0	0	1.152	

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

(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.

(4) 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 where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3 .

Contract No.: NE/2017/03

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

		Actual Quant	tities of Inert C&I	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	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	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	1.284	0.000	0.083	1.058	1.202	0.000	0.002	0.069	0.000	0.000	0.029
Feb	4.744	0.000	0.023	1.590	4.721	0.000	0.000	0.000	0.620	0.000	0.027
Mar	6.140	0.000	0.083	0.503	6.057	0.000	0.002	0.054	0.569	0.000	0.025
Apr	1.828	0.000	0.000	0.968	1.828	0.000	0.000	0.000	0.000	0.000	0.031
May	0.380	0.000	0.000	0.015	0.380	0.000	0.000	0.000	0.260	0.000	0.026
Jun	1.181	0.000	0.000	0.135	1.181	0.000	0.002	0.176	2.210	0.000	0.015
Sub-total	15.557	0.000	0.188	4.268	15.370	0.000	0.006	0.299	3.660	0.000	0.153
Jul	2.107	0.000	0.938	1.575	1.169	0.000	0.000	0.000	0.000	0.000	0.011
Aug	2.041	0.000	0.323	0.713	1.718	0.000	0.000	0.000	0.830	0.000	0.048
Sep	2.924	0.000	0.443	0.570	2.482	0.000	0.003	0.022	0.850	0.000	0.024
Oct	1.324	0.000	0.090	1.185	1.234	0.000	0.000	0.000	1.218	0.000	0.046
Nov	0.246	0.000	0.015	0.405	0.231	0.000	0.000	0.000	0.532	0.000	0.037
Dec											
Total	24.199	0.000	1.995	8.715	22.204	0.000	0.009	0.321	7.090	0.000	0.319

Monthly Summary Waste Flow Table for <u>2020</u>(year)

Contract No.: NE/2017/03

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

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract*											
Total Quantity GeneratedHard Rock and Large Broken ConcreteReused in the ContractReused in other ProjectsDisposed as Public FillImported FillMetalsPaper/ cardboard packagingPlastics (see Note 3)Chemical WasteOthers, e.g. general refuse												
(in '000m ³)	(in '000m ³) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg)											
15.000	15.000 0.000 0.000 15.000 0.000 0.100 2.000 0.300 1.000 3.500											

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

(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 (0.88 kg/L)

Appendix L

Implementation Schedule for Environmental Mitigation Measures



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



 Where a scaffoldic construction, effect to enclose the scaff canopy should be pof the scaffolding; Any skip hoist fairmervious sheetin Every stock of max (PFA) should be carea sheltered on the Cement or dry PFA with an audible h filling line and no construction activity where the exposed 		Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status Contract 1 Contract 2 Contract 3			
S4.7.7 Implement regular dus	by the property treated by compact ion, turfing, etation planting or sealing with latex, vinyl, bitumen, suitable surface stabiliser within six months after the last ty on the construction site or part of the construction site or p						Contract 5	
	t monitoring under EM&A programme during the	Control construction airborne noise	Selected Representati ve dust monitoring station	All construction sites where practicable	V	N/A	N/A	
Noise Impact (Contraction Phase)								
 S5.6.9 Implement the following only well-maintain serviced regularly of machines and plan should be shut dow minimum; plant known to er orientated so that the silencers or mufflet ted and maintained mobile plant shou practicable; and material stockpiles 		Control construction ion airborne noise Reduce the noise	Contractor	All construction sites where practicable	@ V	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			
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	
\$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	
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	
\$5.6.19	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	
\$5.6.34	Implement temporary noise barrier along Road L4.	Further reduce the construction ion airborne noise	Contractor	Road L4 of ARQ	N/A	N/A	N/A	
\$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	
Water Qua	ality Impact (Contraction Phase)		•					
S6.6.3	 <u>Construction Runoff</u> In accordance with the Practice Note for Professional Persons on Construction ion Site Drainage, Environmental Protect ion Department , 1994 (ProPECC PN 1/94), best management practices should be implemented as far as practicable as below: At the start of site establishment , perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or 	Control construction runoff	Contractor	All construction sites	V	V	@	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	In Contract 1	mplementation Sta	tus Contract 3
	 minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for set 1 ling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped. The dikes or embankments for flood protect ion should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt /sediment t rap. The silt /sediment t raps should be incorporated in the permanent drainage channels to enhance deposit ion rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction ion. Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed. 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 taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be discharged into storm drains via silt removal facilities. All open stockpiles of construction ion materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rai						



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the measure	Implementation Status			
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	
	 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 the release of oil and grease into the storm water drainage system after accidental spillage. A bypass 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. 							
\$6.6.6	Sewage from Workforce	Handling of site	Contractor	All	V	V	V	
and 6.6.7	• Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be needed. In addition, the total number of the chemical toilets, and contractor's site practices. Nevertheless, a licensed contractor should be employed to provide appropriate and adequate portable toilets to cater around 37.5 m3/day sewage and be responsible for appropriate disposal and maintenance. Since portable chemical toilets will be provided, no adverse water quality impact from the workforce sewage is anticipated.	sewage		construction sites				



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status			
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	
	• 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 and warnings while disposal of those chemical wastes should be comply with the requirement states in Waste Disposal Ordinance (Cap 354) as well as Waste Disposal (Chemical Waste) (General) Regulations.	Prevention of accidental spillage	Contractor	All construction sites	V	@	V	
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 discharged into the foul sewers. If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality	Minimize contaminated groundwater impacts	Contractor	All construction sites	NA	NA	NA	



EM&A Ref.	Recommended Mitigation Measures	Objectives Recomment Measures & Concern to A	nded Main	Who to implement the measures?	Location of the measure	Implementation Status Contract 1 Contract 2 Contract 3		
	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 at the recharge well. Prior to recharge, any prohibited substances such as PCRs should be removed as necessary by installing the petrol interceptor.							Contracto
	nagement (Contraction Phase)							
S8.5.2	 <u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 	Minimize generation construction	waste during	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.	Minimize generation construction	waste during	Contractor	All construction sites	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; plan and stock construction ion materials carefully to minimize amount of 	Reduce generation	waste	Contractor	All construction sites where practicable	V	V	V



sort out dem recover reus provide tra managemen S8.5.5 <u>Storage of Waste</u> The following reco waste such containment		Recommended Measures & Main	Who to implement the	Location of the	Implementation Status			
sort out dem recover reus provide tra managemen S8.5.5 <u>Storage of Waste</u> The following reco waste such containment		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	
S8.5.5 Storage of Waste The following record • waste such containment	ated and avoid unnecessary generation of waste; nolition debris and excavated materials from demolition works to sable/recyclable port ions (i.e. soil, broken concrete, metal etc.); ining to workers on the importance of appropriate waste tt procedures, including waste reduction, reuse and recycling.							
	ommendation should be implemented to minimize the impacts: as soil should be handled and stored well to ensure secure t; area should be provided with covers and water spraying system naterials from wind-blown or being washed away; ocations should be designated to stockpile each material to	Minimize waste impacts from storage	Contractor Contractor	All construction sites	V	V	V	
The following reco remove was employ the transportation obtain relevant	nsportation of Waste ommendation should be implemented to minimize the impacts: te in timely manner; trucks with cover or enclosed containers for waste on; ant waste disposal permits from the appropriate authorities; and waste should be done at licensed waste disposal facilities.	Minimize waste impacts from storage	Contractor	All construction sites	V	V	V	
avoid contamination sites. The following excavated and C& • maintain the backfilling; • carry out on • make proviss recycled agg • implement a and disposed The recommended • On-site sortt • Reuse of C&	ble, C&D materials should be segregated from other wastes to on and ensure acceptability at public filling areas or reclamation ng mitigation measures should be implemented in handling the D materials: emporary stockpiles and reuse excavated fill material for	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	
Provision of S8.5.15 <u>Contaminated Soil</u>	f wheel wash facilities it is recommended that standard good site practice should be	Remediate	Contractor	All	V	V	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status Contract 1 Contract 2 Contract 3			
	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.	Concern to Address	measures:	sites where applicable	Contract 1	Contract 2	Contract 3	
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	
S8.5.18	 <u>General Waste</u> <u>General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</u> 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	(¢	
S8.5.19	 Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts. 	Minimize production of sewage impacts	Contractor	All construction sites	V	V	V	
Ecology (C	Contraction Phase)							
S. 10.7.2 to 10.7.6	Re-provision of Wooded Area for ecological function at the future Quarry Park.	Compensate for the loss of three woodland patches of a total area of about 1.13ha.	Contractor/ Detailed Design Consultant (qualified botanist / horticulturis t / Certified Arborist to supervise the	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status Contract 1 Contract 2 Contract 3				
		Concern to Address	planting).		Contract I	Contract 2	Contract 3		
.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 on site will be minimised via the following in descending order: reuse, recycling and treatment; Proper locations f	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V		
S.10.7.11	Implement an emergency contingency plan during the construction phase and the	Minimize impacts on	Contractor	All	N/A	N/A	N/A		



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status			
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	
	 plan will include, but not be limited to, the following: Potential emergency situations; Chemicals or hazardous materials used on-site (and their location); Emergency response team; Emergency response procedures; List of emergency telephone hot lines; Locations and types of emergency response equipment , and Training plan and testing for effectiveness. 	Hydrological condition and water quality of hillside watercourses.		construction sites				
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	@	@	
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	
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	
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	
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	

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	1	0
May 2018	1	0
June 2018	1	0
July 2018	0	0
August 2018	1	0
September 2018	1	0
October 2018	1	0
November 2018	3	0
December 2018	2	0
January 2019	2	0
February 2019	3	0
March 2019	1	0
April 2019	0	0
May 2019	0	0
June 2019	1	0
July 2019	1	0
August 2019	1	0
September 2019	0	0
October 2019	1	0
November 2019	4	0
December 2019	0	0
January 2020	0	0
February 2020	0	0
March 2020	4	0
April 2020	4	0
May 2020		0
June 2020	1	0
July 2020		0
August 2020	0	0
0	0	0
September 2020	0	0
October 2020		
November 2020	1	0
Overall Total	60	0



A	App	oendix N	/12	Comj	plaint Log							
L	og 1 ef. (Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
1	2	23-Mar-17	NA	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	SPRO hotline	NA		According the incident report conducted by the CWSTVJV, demobilization of crawler crane was undertaken on 23 March 2017 11pm and it is TD requirement to carry out demobilization of heavy machine at nighttime. It is considered this complaint was a single incident and would not be happened again in future.	no comment by IEC on 11 Oct 2017	TCS00864/16/3 00/F0087
2	2	28-Jul-17	28-Jul-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	SPRO hotline	NA	Mr. Hsu received a complaint from a resident living in the flat on 38/F of Yin Tat House (賢達樓), On Tat Estate. The resident complained about the noise level of our works during daytime.	Noise monitoring by Contractor was conducted in Yin Tat House, On Tat Estate, at around 2 pm on 28-Jul-2017. Another noise monitoring was carried out by ET 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	TCS00864/16/3 00/F0060
3	2	29-Aug-17	29-Aug-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	SPRO hotline	NA	Mr. Hsu Yau Wai 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 and representatives of AECOM and JV in the presence of the complainant in her flat at 3pm on 30-Aug-2017. No exceedance of noise was recorded. The complainant was satisfied about the monitoring results.	no comment by IEC on 8 Sep 2017	TCS00864/16/3 00/F0081
4	2	21-Jun-17	29-Aug-17	Anderson Road Quarry site	Resident of Po Tat Estate	Construction noise	EPD	EPD (ref.N08/ RE/00019 373-17)	day time construction noise of breakers (8am to 6pm)	These two complaints were forwarded by CEDD to ET on 31 August 2017 which after the complaint dates. Investigation was conducted based on the site information by the Contractor of Contract 1 as well as the observation during weekly site inspection carried out ET during June 2017. In our investigation,	no comment	TCS00864/16/3 00/F0093
5	4	22-Jun-17	29-Aug-17	Anderson Road Quarry site	Resident of Po Tat Estate	Dust & Construction noise	EPD	EPD (ref. N08/RE/0 0019428- 17)	Day time construction noise of breakers (8AM to 6PM). Requested to delay the operating hour of breakers to 10AM or 11AM	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	by IEC on 3 Nov 2017	TCS00864/16/3 00/F0093
6	1	15-Jul-17	29-Aug-17	Anderson Road Quarry site	Resident of Po Tat Estate	Construction noise	EPD	EPD (ref.N08/ RE/00022 479-17)	Construction noise	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	no comment by IEC on 3 Nov 2017	TCS00864/16/3 00/F0094
7	2	28-Jul-17	29-Aug-17	Anderson Road Quarry site	unknown	Dust	EPD	EPD (ref.N08/ RE/00023 986-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident and status of the implementation of dust mitigation measures was considered effective based on the site observation.	no comment by IEC on 15 Nov 2017	TCS00864/16/3 00/F0097



	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
8	2-Aug-17	29-Aug-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	EPD		Day time construction noise of breakers (8AM to 6PM)	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in August 2017, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should further enhance the noise mitigation measures as appropriately. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	Nov 2017	TCS00864/16/3 00/F0098
9	19-Sep-17	19-Sep-17	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction noise	SPRO hotline	NA	The complainant is living at Sau Mau Ping Estate Sau Nga House 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.	conducted in the Quarry Site. The measurement results taken at	no comment by IEC on 18 Oct 2017	TCS00864/16/3 00/F0088
10	21-Sep-17	13-Oct-17	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction noise	EPD	EPD (ref.N08/ RE/00031 074-17)	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.	both 秀雅樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.		TCS00864/16/3 00/F0088
11	27-Sep-17	13-Oct-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	EPD	RE/00029	The complainant questioned why there were 6 to 7 breakers operating in the morning but only 1 operating in the afternoon. He requested to shift the operation of the breakers to afternoon.	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in September and October 2017,	no comment	TCS00864/16/3 00/F0106
12	3-Oct-17	13-Oct-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	EPD	N08/RE/0	Day time construction noise, the complainant requested using less breaker at one time, erecting taller noise barrier to cover the equipment. In addition, the complainant would like to know the construction schedule whether there will be more breaking activities in near future	there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.		TCS00864/16/3 00/F0106
13	25-Oct-17	26-Oct-17	Anderson Road Quarry site	Resident 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 inconvenience caused to the nearby resident. Nevertheless, based on the observation during site inspection on 31 October 2017, CWSTVJV was advised to enhance the dust mitigation measures particularly during dry season.	no comment by IEC on 15 Nov 2017	TCS00864/16/3 00/F0100



	Data of	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
14	6-Nov-17	7-Nov-17	Anderson Road Quarry site	Resident of On Tat Estate	Noise	EPD	NA	安達邨俊達樓居民投訴石礦場地盤 又再於早上 07:45 開始傳出機器不 停 揼 石 的 噪 音 (幾 乎 每 日 在 08:00-19:00 進行工程),已持續一 年,他全家人受到滋援。	Ad-hoc noise measurement was conducted by ET at rooftop of Chun Tat House in the morning of 20 November 2017 and measurement result was below the Limit Level under the EM&A Programme. CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 30 Nov 2017	TCS00864/16/3 00/F0109
15	13-Nov-17	14-Nov-17	Anderson Road Quarry site	Mr. Lam Wai	light pollution and noise	SPRO hotline	NA	 智泰樓面向安達臣地盤方向,有 照射燈深夜時分仍然常開,影響居 民正常睡眠質素,照成一定的精神 壓力。 隔音布未固定,大風吹過發出極 大的聲浪 	immediately fixed the noise barrier nearest to On Tai Estate and prolonged the cover area of the noise barrier to reduce the noise impact to the public.	no comment by IEC on 24 Nov 2017	TCS00864/16/3 00/F0104
16	1-Nov-17	14-Nov-17	Anderson Road Quarry site	Resident of Po Tat Estate	Noise	EPD	NA	居住於安達邨誠達樓高層的投訴人 投訴由早上八時半至下午六時聽到 揼鐵噪音。	CWSTVJV had already deployed the acoustic mat as noise barrier at the site boundary near Shing Tat House. To enhance the noise mitigation measures, CWSTVJV deployed an acoustic mat as noise barrier for the breaking work in order to reduce construction noise affecting the upper floor of On Tat Estate.	by IEC on 13	TCS00864/16/3 00/F0110
17	25-Aug-17	26-Oct-17	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction Noise	EPD	EPD (ref.N08/ RE/00027 738-17)	Night time construction noise of hammering (around 12AM)	It is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project.	no comment by IEC on 14 Dec 2017	TCS00864/16/3 00/F0114
18	12-Sep-17	26-Oct-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction Noise	EPD		Day time construction noise of breakers (8AM to 5PM)	Noise mitigation measures were implemented to reduce the noise impact to the nearby resident. According to the impact noise monitoring result in September 2017, there were no breaches of EM&A requirement. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 10 Jan 2018	TCS00864/16/3 00/F0117
19	15-Dec-17	21-Dec-17	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction Noise	EPD	NA	complained suspected construction noise from Anderson Construction	It is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project.	no comment by IEC on 10 Jan 2018	TCS00864/16/3 00/F0118
20	20-Dec-17	21-Dec-17	Anderson Road Quarry site	Resident of On Tat Estate	Dust	EPD	NA	了十多大, 一直無灑水,四周非常 大塵。 投訴人住於安達邨,投訴	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. It is considered that the complaint was an isolated case due to malfunction of water tanker and CWSTVJV has promptly rectified the deficiency. As advised by CWSTVJV, another water tanker will be deployed in mid-January 2018 to enhance the dust suppression measures throughout the construction site.	by IEC on 25 Jan 2018	TCS00864/16/3 00/F0121
21	28-Dec-17	10-Jan-18	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction Noise	CE's office	NA	日間及凌晨均聽到轟隆聲的噪音及 震動,懷疑是由附近工程引起	ET has conducted an ad-hoc noise measurement for Leq (30min) in the complainant's flat in the monitoring of 17 January 2018.It was noted that the complainant's flat is not in direct line of sight to the Anderson Road Quarry Site. The measurement noise	no comment by IEC on 8 Eeb 2018	TCS00864/16/3 00/F0129



	Date of	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
									result was below the Limit Level under the EM&A Programme. Moreover, it is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out during restricted hour at the subject site. Therefore, the complaint about noise nuisance during restricted hour should not be related to the Project.		
22	15-Jan-18	15-Jan-18	Anderson Road Quarry site	Resident of Chun Tat House of On Tat Estate, 40/F	Construction Noise	SPRO mobile	NA	noise of breaking rock for a long time and strongly requested to know exactly when will be the completion date of the breaking rock part of works opposite to Chun Tat House. She said we should do more on the mitigation measures because our site	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on 8	TCS00864/16/3 00/F0130
23	1-Feb-18	2-Feb-18	Anderson Road Quarry site	Resident of On Tai Estate (referred by Mr. Lam Wai)	Construction Noise	SPRO hotline	NA	"智泰對出,白天噪音過大,可否加 裝隔音板?高層受影響"	The Environmental Team has conducted an ad-hoc noise measurement for Leq(30min) at the corridor of 22/F of Chi Tai House on 2 February 2018 facing the construction site. The measurement noise result was 65dB(A) which below the Limit Level under the EM&A Programme. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement.	by IEC on 22	TCS00864/16/30 0/F0137
24	1-Feb-18	2-Feb-18	Anderson Road Quarry site	Resident of Shing Tat House (referred by Mr. Hsu Yau Wai)	Construction Noise	SPRO hotline	NA	disturbing noise was heard after 6:00	complaint case, CWSTVJV would seek for other quiet work method such as using drilling machine to reduce noise level and speed up the rock breaking process, so that to reduce the noise intensity level and the duration of exposure.	no comment by IEC on 28 Feb 2018	TCS00864/16/30 0/F0140
25	28-Feb-18	28-Feb-18	Anderson Road Quarry site	Resident of Shing Tat House	Construction Noise	EPD	NA	安達邨誠達樓居民,投訴人是返夜 班,一年半以來長期受對出地盤日 間揼石仔噪音滋擾,由於單位與地 盤太近,堅持環保署跟進及回覆如 何處理及減低噪音,他亦要求知道 何日完工.	Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking upda shall tantatively be completed by end	no comment by IEC on 19 Mar 2018	TCS00864/16/30 0/F0143



	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
26	11-Apr-18	12-Apr-18	Anderson Road Quarry site	Resident of HimTat House	Construction Noise	SPRO Hotline	NA	severe recently and asked about the completion date of the works close to Him Tat House. The resident	In our investigation, since construction noise was generating from other construction site next to Him Tat House, it is considered that the complaint is due to cumulative noise generated by both construction sites. However, CWSTVJV should properly provide the noise mitigation measures at works area in System B to minimize the noise impact to the resident nearby. As advised by CWSTVJV on 20 April 2018, noise barrier was being erected at works area in System B as noise mitigation measures. According to the site photo, it is considered that the coverage of noise barrier is not sufficient and CWSTVJV should enhance the measure as far as practicable. The implementation of noise mitigation measures will be kept in view in subsequent site inspection.	no comment by IEC on 7 May 2018	TCS00864/16/3 00/F0160b
27	25-Apr-18	•	Junction of Hiu Kwong Street and Hiu Ming Street	seniour not	Construction Noise	EPD	NA	This case is considered as an enquiry	and no investigation is required under the EM&A Programme.	NA	NA
28	18-May-18	24-May-18	Anderson Road Quarry Site	Undisclosed	Construction Noise	EPD		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。	retracting process is not a general construction work using Powered Mechanical Equipment and complaint was an isolated	no comment by IEC on 30 July 2018	TCS00864/16/3 00/F0174b
29	25-Jun-18				Waste Managemen t	CEDD	NA	A public complaint was referred from CEDD on 4 July 2018 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 leaves and branch asap	CW-CMGC-JV has immediately clear the dead leaves and maintain the site cleanliness. Since the construction work has not yet commenced and the dead leaves and overgrown branches were not related project works, it is considered that the complaint is not valid the project.	no comment by IEC on 24	TCS00864/16/3 00/F0189b
30	22-Aug-18	29-Aug-18	Hong Wah Court	Resident of Hong Wah Court	Construction Noise	1823 Hotline	NA	投訴人指馬游塘區堆填區往將軍澳 方向行車人口因配合項目需要而進 行移除山坡工程,但其鑽地鑿石的 噪音嚴重影響藍田康雅苑*居民,要 求有關部門跟進。 *註:投訴人於 2018 年 8 月 27 日更 正指受影響屋苑應為藍田康華苑。	to reduce the inconvenience caused to the nearby resident, Kwan On should properly maintain the noise mitigation measures as appropriate, such as maintain good site practice including intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment	TCS00864/16/3 00/F0196a



Log ref.	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
31	26-Feb-18	31-Jul-18	Anderson Road Quarry Site	Undisclosed	Construction Noise	EPD	NA	安達邨誠達樓後面地盤,2月26日 晚,晚上7時後,還在落石屎,相 片拍攝時間大概晚上9時半,一直 至晚上十一時五十分還有工程車在 地盤行駛。影響居民休息。	According to the site diary which countersigned by RE, there was no concreting work carried out after 18:00 and the construction activities conducted during restricted hours with valid CNP were completed at 23:00. It is considered that the complaint was not valid to the Project. Nevertheless, CWSTVJV was reminded that in case of any work activities need to be carried out during restricted hours, CWSTVJV should strictly follow the requirements specified in the valid CNP.	no comment by IEC on 10 Oct 2018	TCS00864/16/3 00/F0197a
32	6-Sep-18	7-Sep-18	Tsui Yeung House	Resident of Tsui Yeung House	Construction Noise	Verbal	NA	complained that the contractor has conducted the noisy works such as	Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. As advised by Kwan On, the rock breaking works shall tentatively be completed by end of December 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 22 Oct 2018	TCS00864/16/3 00/F0201
33	24-Oct-18	25-Oct-18			Construction Noise	Whatsap p Message	NA		As advised by the Contractor, the acoustic material wrapped on the breaker was worn-out on 24 October 2018 and replacement of new acoustic materials has been installed on the breaker immediately on 25 October 2018. The rock breaking works shall tentatively be completed to the road level in the middle of November 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. It is considered the complaint was an isolate case.	no comment by IEC on 23 Nov 2018	TCS00864/16/3 00/F0209a
34	12-Nov-18	13-Nov-18	Road	Resident of ChingTat House(referre dby Mr. Hui Yau Wai)	Construction Noise	SPRO Hotline	NA	Mr. Hui reported that he received complaint from a resident living in Ching Tat House about noise nuisance recently. Mr. Hui 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.	2020. Moreover, the noise mitigation measures had implemented to reduce the noise level effectively and the work progress will be closely updated to nearby stakeholders to enhance communication. Mr. Hu, satisfied with the realy from SPRO and	no comment by IEC on 12 Dec 2018	TCS00864/16/3 00/F0222a
35	14-Nov-18		Anderson Road Quarry Site	Undisclosed	Light and Noise	EPD	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。	CWSTVJV immediately adjusted the angle and brightness of the lighting to minimize the nuisance to the resident nearby. In response to the complaint, CWSTVJV immediate carried out remedial action to minimize the nuisance to the public. It was considered that complaint for noise generated by machine moving was an isolated case. CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.	no comment by IEC on 3 Jan 2019	TCS00864/16/3 00/F0223a



		Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
36	13-Nov-18	14-Nov-18	Anderson Road Quarry Site	Undisclosed	Noise and dust	1823	NA	the starting time of construction work at project site and also to solve the	In our investigation, acoustic barrier and site hoarding were in place along the works area. No noticeable noise and dust impact was observed during the site inspection. As advised by CWSTVJV, the normal working hour of the construction site is 8am to 6pm and there were no violation of the relevant regulations. The senior public relation officer contacted the complainant Ms. Ma on 26 November 2018 to explain the site situation and she was satisfied with the reply. Investigation Report has been completed by ET without comment from IEC.	no comment by IEC on 18 Feb 2019	TCS00864/16/3 00/F0224
37	9-Dec-18	12-Dec-18	Anderson Road Quarry Site	Undisclosed	Construction noise	1823	2-492790 7305	1823 has referred a case to CEDD on 10 December 2018, which the complainant complained that construction noise was generated from project site on Sunday and was affecting the resident at Hau Tat House, On Tat Estate. The complainant requested follow up action from related department as soon as possible.	In our investigation based on the information provided by CWSTVJV, there was no site activities undertaken at site access road as concerned by the complainant. The construction work carried out on Sunday was fully compliance with the CNP requirement. In response to the complaint, CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.	no comment by IEC on 10 Jan 2019	TCS00864/16/3 00/F0230a
38	19-Dec-18	27-Dec-18	Anderson Road Quarry Site	Undisclosed	Construction noise	1823	2-494807 4127	27 December 2018, which the complainant complained that noise barriers near the round-about at On Sau Road were not enough, and construction noise generated from the project site was affecting the resident at Ming Tai House, On Tai Estate. The complainant requested	Joint site inspection was carried out on 3 January 2019 the status of implemented mitigation measures provided by CWSTVJV was inspected. It was observed that noise mitigation measures including temporary noise barrier, acoustic mat and wrapped by acoustic materials are implemented on site. However, CWSTVJV was advised to extend the coverage of noise barrier as far as practicable and fully enclose the concerned works area which has been completed on 15 January 2019. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 31 Jan 2019	TCS00864/16/3 00/F0237a
39	24-Jan-19	29-Jan-19	Anderson Road Quarry Site	Undisclosed	wastewater	Referred from DSD	NA	DSD has referred a case to CEDD on 24 January 2019 regarding suspended illegal discharge of cementitious slurry from construction site of Development of ARQ Site to	In our investigation, the concerned catchpit and U-channel mainly received the runoff from Po Lam Road as well as the discharge from the Anderson Road Quarry Site. It is suspected that the mud and silt found on the downstream has been accumulated over time particularly by rainstorm as well as routine discharge from construction site. As remedial action, CWSTVJV immediately clean the affected area where accessible. Nevertheless, in order to protection the watercourse at downstream of the construction site, CWSTVJV has some enhancement measures.	no comment by IEC on 29 Mar 2019	TCS00864/16/3 00/F0248a
40	30-Jan-19	30-Jan-19	Anderson Road Quarry Site	Undisclosed	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.	In our investigation, CWSTVJV had provided the noise mitigation measures to minimize the noise impact to the resident nearby. The impact monitoring result obtained at Ma Yau Tong Village revealed that the construction noise were within acceptable level. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement.	no comment by IEC on 15 Mar 2019	TCS00864/16/3 00/F0249a



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41	15-Feb-19	25-Feb-19	Anderson Road Quarry Site	Undisclosed	noise	1823	2-494807 4127	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 re	In response to the complainant, CWSTVJV has proposed alterative quiet work method to alleviate the noise impact to the public. They will schedule the noisy activities to be carried out after 10am as far as practicable to minimize the impact to resident nearby, given that not affecting the site progress. Moreover, the coverage of acoustic barriers will be extended in view of the works programme	no comment by IEC on 29 Mar 2019	TCS00864/16/3 00/F0251a
42	21-Feb-19	25-Feb-19	Anderson Road Quarry Site	Undisclosed	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.	In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate, such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.erway by ET.	no comment by IEC on 28 Mar 2019	TCS00864/16/3 00/F0250
43	21-Feb-19	26-Feb-19	Anderson Road Quarry Site	Undisclosed	noise	received by DEVB and referred to CEDD	NA	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	Additional acoustic mat has been erected in front of the Squatter Area to minimize the noise impact. Noise mitigation measures such as acoustic barriers erected along the works area and breaker head wrapped with acoustic material were implemented continually. Alterative quiet work method was adopted such as drilling the hard rock before the breaking work to reduce the breaking duration. In our investigation, CWSTVJV had enhanced the noise mitigation measures to ease the complainant's concerns. CWSTVJV will continually implement the noise mitigation measures to reduce to noise impact to the public.	no comment by IEC on 29 Mar 2019	TCS00864/16/3 00/F0252a
44	1-Mar-19	26-Feb-19	E3 of Contract 2	Undisclosed	noise	CEDD	NA	which was received by KTDC member Mr CHENG Keung Fung from the residents of Tsui Yeung House(翠楊樓) about the noise nuisance generated and the working time up to 7:00 pm from the rock	The representative of the engineering team explained to Mr. Cheng about the project's details and concerned site was being constructed for the future pedestrian connection facilities. The related stone drilling process is expected to be completed in mid-April to end of April 2019. Mr. Cheng was satisfied with the rapid response from CEDD and the engineering team. In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 6 May 2019	TCS00864/16/3 00/F0264



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45	16-Jun-19	18-Jun-19	Anderson Road Quarry Site	Undisclosed	noise	EPD	NA	EPD referred a case to CEDD on 17 June 2019 regarding the construction noise heard at On Tat Estate on Sunday.	The Contractor explained that general cleaning by water jet was carried out in the construction site on the concerned day. Since the work did not involve the use of Powered Mechanical Equipment (PME), it would not violate the noise control ordinance.	no comment by IEC on 21 August 2019	TCS00864/16/3 00/F0301a
46	12-Jul-19	15-Jul-19	Anderson Road Quarry Site	Undisclosed	dust	EPD	NA	On 12 July 2019, a complaint was received by EPD regarding the dust impact to the residents at Po Tat Estate and On Tat Estate due to the dust emission at Anderson Road Quarry site.	Was considered effective based on the site observation.	no comment by IEC on 12 August 2019	TCS00864/16/3 00/F0292b
47	6-Aug-19	C	Ming		Noise	1823	NA	A public complaint was received by 1823 on 6 August 2019 relating to the noise generated from construction work at the lift tower site (Slope E3) at Hui Ming Street from the residents of Tsui Yeung House. The complainant expressed that the construction works has been undertaken for 2 years and generated construction noise from 8am every day, which causing serious nuisance to the nearby residents.	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	no comment by IEC on 16 Sep 2019	TCS00864/16/3 00/F0310a
48	15-Oct-19	18-Oct-19	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchang e Pedestrian Connectivi ty Facilities E12)		Noise	1823	NA	A public complaint was received by 1823 on 15 October 2019 relating to the noise generated from Construction work at Tseung Kwan O Tunnel Bus to Bus Interchange Pedestrian Connectivity Facilities E12. The complainant expressed that the construction noise was generated from breaking work at 8:20 am without noise mitigation measure, which causing nuisance to the nearby residents.	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 13 Nov 2019	TCS00864/16/3 00/F0326a



	g Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
49	5-Nov-19	11-Nov-19	Work Area Portion 2&3 (lift tower constructio n work at Hiu Kwong Street)		Noise	EPD	NA	A public complaint was received by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3).		no comment by IEC on 27 Dec 2019	TCS00864/16/3 00/F0332a
50	7-Nov-19	11-Nov-19	Work Area Portion 6	Mr. Cheng	Noise	EPD	NA	寶達邨居民鄭先生,表示將軍澳隧 道出口工程,日間噪音嚴重, 8:30-17:00,幾部幾同時開動,而且 無防音欄,之前是有,現要求環保署 向對方反映改善		no comment by IEC on 27 Dec 2019	TCS00864/16/3 00/F0333a
51	10-Nov-19	12-Nov-19	Underpass	Resident of Ma Yau Tong Village	Noise	EPD	NA	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。	violation of legislative requirement. For the complainant's concern on the operation noise after commencement of the project, it is out of the scope of the EM&A programme and the relevant department will follow up the	no comment by IEC on 30 Dec 2019	TCS00864/16/3 00/F0337a
52	11-Nov-19	20-Nov-19	Constructi on site near on Tai Estate Ancillary Facilities Building on On Sau Road	Mr. Wong (resident of Yung Tai House of On Tai Estate)	Noise	1823	ref. 2-597630 3183	大樓附近掘路工程已持續數年還未 完成,並投訴其經常發出噪音滋 援,要求部門跟進。 On 22 November 2019, the project	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. However, in response to the complaint, the Contractor was advised to enhance the performance of the temporary noise barriers such as increase the coverage of the noise barrier. Since the works were conducted within normal working hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.	no comment by IEC on 27 Dec 2019	TCS00864/16/3 00/F0338a



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								Yan Street. He suggested to speed up the noise making works by intensely concentrate the excavation works during day time. No intermittence is suggested in order to speed up the works and to avoid waste of manpower.			
53	5-Mar-20		Tunnel work of Anderson Road Quarry Site (the Underpass)	Resident of On Tat Estate	Noise	EPD	NA	知何時將嘈音減至最低 。1. A public complaint was received by EPD on 5 March 2020 regarding the construction noise generated from the tunnel work of the subject site. The complainant mentioned that the noise from construction was improved before but it became serious recently.	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic mat at boundary of System A. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 1 Apr 2020	TCS00864/16/3 00/F0357a
54	4-Mar-20	17-Mar-20	Near Hiu Ming Street Playgroun d (E8)	Undisclosed	Noise	1823	ref. 3-628323 7171	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 on weekdays.	In our investigation, CW-CMGCJV had implemented the noise mitigation measures for the works at upper section of E8 near Hiu Yuk Path and no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. It is considered that the complaint is likely related to another construction site located near Hiu Ming Street Playground and not caused by the works under the Project. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 15 Apr 2020	TCS00864/16/3 00/F0359a
55	23-Mar-20	23-Mar-20	Near Lin Tak Road (E11)	Undisclosed	Water Quality	Project hotline	NA	藍田居民梁先生反映在將軍澳道往 連德道天橋的大彎位,其中有一個 車輛出入口每日早上八時左右不時 有泥水從地盤流出路面,估計泥水 是清洗工程車輛所致,今梁先生的	inspection, no outflow of muddy water from the site was observed and the condition of concerned Lin Tak Road was satisfactory. It is considered that the complaint was unlikely due to the project.	no comment by IEC on 15 Apr 2020	TCS00864/16/3 00/F0360a



	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
								overflow of muddy water from the construction site. The complainant mentioned that muddy water came out from site entrance, which spotted on his car, at 8am every morning.			
56	17-Mar-20	19-Mar-20	Anderson Road Quarry Site	Resident of Yan Tat House	Noise	Project hotline	NA	發展用地工程噪音持續兩年,要求 工程團隊下周派員到有關單位視 察,並採取可行的噪音緩解措施。	In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CW-CMGCJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 11 May 2020	TCS00864/16/3 00/F0361a
57	1-Apr-20	20-Apr-20	Work Area Portion 2	Undisclosed	Noise	1823	NA	因及有沒有措施解決地盤發出的噪 音。 A public complaint was received by 1823 on 1 April 2020 and subsequently transmitted to Environmental Team (ET) on 20 April 2020, regarding the noise	In our investigation, Kwan On has implemented noise infigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. However, as the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 7 May 2020	TCS00864/16/3 00/F0366a



	g Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Status	Investigation Report Ref.
58	11-May-20	1.7 - May - 20	Work Area Portion 2	Undisclosed	Noise	Project hotline	NA	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 a badity. The		no comment by IEC on 28 May 2020	TCS00864/16/3 00/F0370a
59	18-Jun-20	23-Jun-20	System B	Undisclosed	Noise	EPD	NA	The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be corrided out	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 17 July 2020	TCS00864/16/3 00/F0391a
60	23-Jul-20	24-Jul-20	Anderson Road Quarry Site near On Tat Estate	Undisclosed	Noise	EPD	NA	A public compraint was received by EPD on 23 July 2020 regarding the construction noise generated from the use of PME at Anderson Road Quarry Site near On Tat Estate at 6:30am (restricted hours). He/ she requested relevant department to follow up	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 25 August 2020	TCS00864/16/3 00/F0401



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61	14-Nov-20	18-Nov-20	Near Hiu Ming Street Playgroun d (E8)	Undisclosed	Noise	1823		A public complaint was received by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up	In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	-	TCS00864/16/3 00/F0424



Appendix N

Implementation Status for Water Quality Mitigation Measures

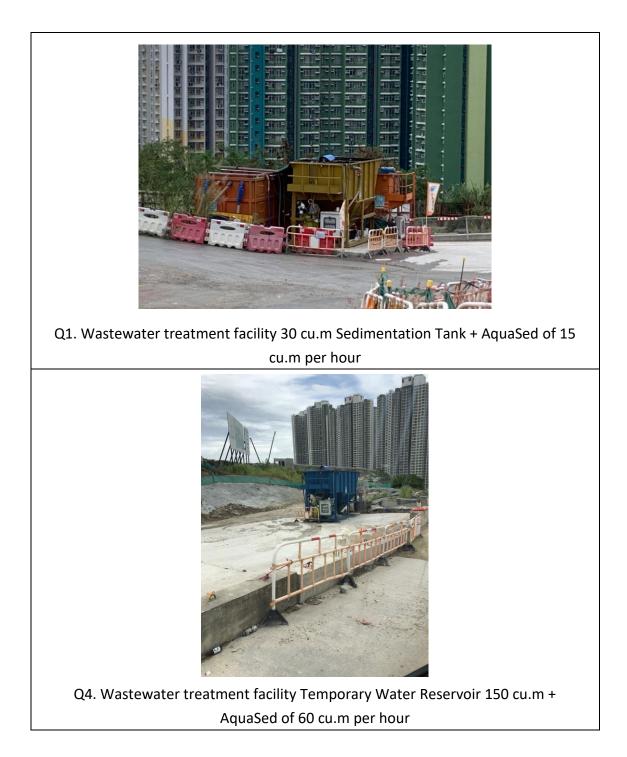
Water Quality Mitigation Measure



Paving for exposed slope to reduce dust dispersion & mitigate the silty runoff generation at SYSTEM A.



Impermeable cover for slope at System A.







Q7. Wastewater treatment facility 30 cu.m Sedimentation Tank + AquaSed of 60 cu.m per hour

