

**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 (MAY 2021)

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	<b>Reference No.</b>	Prepared By	Certified By
18 June 2021	TCS00864/16/600/R0475v2	Anh	Am

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

Version	Date	Remarks
1	16 June 2021	First Submission
2	18 June 2021	Amended according to IEC's comment



Civil Engineering and Development Department	Your reference:	
East Development Office		
8/F, South Tower, West Kowloon Government Offices	Our reference:	HKCEDD10/50/107375
11 Hoi Ting Road		
Yau Ma Tei	Date:	21 June 2021
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 (May 2021)

We refer to the emails of 16 and 18 June 2021 from Action-United Environmental Services and Consulting attaching a Monthly Environmental Monitoring and Audit Report (May 2021) for the captioned project.

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

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

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/LCCR/YCFF/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. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021.
- ES04 This is the **50<sup>th</sup>** monthly EM&A report presenting the monitoring results and inspection findings for the period from **1 to 31 May 2021** (hereinafter 'the Reporting Period').

#### **ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES**

ES05 Environmental monitoring activities under the EM&A programme in the Reporting Period are summarized in the following table.

Environmental	Environmental Monitoring	<b>Reporting Period</b>		
Aspect	Parameters / Inspection	Number of Active Monitoring Locations	Total Occasions	
Ain Quality	1-hour TSP	6	90	
Air 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 and no noise complaint (which triggered Action Level) was received in the reporting period. The environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

Environmentel	Monitoring Parameters	Action	T ::4	Event & Action		
Environmental Aspect		Action Level		NOE Issued	Investigation	<b>Corrective Actions</b>
Air Quality	1-hour TSP	0	0	0	NA	NA
	24-hour TSP	0	0	0	NA	NA
Construction Noise	L <sub>eq(30min)</sub> Daytime	0	0	0	NA	NA



#### **ENVIRONMENTAL COMPLAINT**

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

#### NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

#### **REPORTING CHANGE**

ES09 Variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021 and the EM&A activities include site inspection and reporting.

#### 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 6<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup> and 25<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 6<sup>th</sup> May 2021. No non-compliance was noted during the site inspection.
- ES11 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 2* were carried out by the RE, ET and Contractor on 5<sup>th</sup>, 12<sup>th</sup>, 18<sup>th</sup> and 26<sup>th</sup> May 2021 in which IEC joined the site inspection on 26<sup>th</sup> May 2021. No non-compliance was noted during the site inspection.
- ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 3* were carried out by the RE, ET and Contractor on 7<sup>th</sup>, 14<sup>th</sup>, 21<sup>st</sup> and 28<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 7<sup>th</sup> May 2021. No non-compliance was noted during the site inspection.
- ES13 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 5* were carried out by the RE, ET and Contractor on 6<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 25<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 4<sup>th</sup> June 2021. No non-compliance was noted during the site inspection.

#### **FUTURE KEY ISSUES**

- ES14 During wet season, the Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- ES15 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.
- ES16 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- ES17 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.



## **Table of Contents**

1.	INTRODUCTION	1
	1.1 PROJECT BACKGROUND	1
	1.2 REPORT STRUCTURE	1
2.	PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS	3
	2.1 CONSTRUCTION CONTRACT PACKAGING	3
	2.2 PROJECT ORGANIZATION	4
	2.3 CONSTRUCTION PROGRESS	4
3.	SUMMARY OF IMPACT MONITORING REQUIREMENTS	11
	3.1 GENERAL	11
	3.2 MONITORING PARAMETERS	11
	3.3 MONITORING LOCATIONS	11
	3.4 MONITORING FREQUENCY AND PERIOD	13
	3.5 MONITORING EQUIPMENT	13
	3.6 MONITORING METHODOLOGY	14
	3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS	16
	3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL	17
4.	AIR QUALITY MONITORING	18
	4.1 GENERAL	18
	4.2 RESULTS OF AIR QUALITY MONITORING	18
5.	CONSTRUCTION NOISE MONITORING	20
	5.1 GENERAL	20
	5.2 NOISE MONITORING RESULTS IN REPORTING MONTH	20
6.	WASTE MANAGEMENT	22
	6.1 GENERAL WASTE MANAGEMENT	22
	6.2 RECORDS OF WASTE QUANTITIES	22
7.	SITE INSPECTION	24
	7.1 REQUIREMENTS	24
	7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH	24
8.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE	27
0.	8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION	27
9.	IMPLEMENTATION STATUS OF MITIGATION MEASURES	28
	9.1 GENERAL REQUIREMENTS	28
	9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH	28
	9.3 KEY ISSUES FOR THE COMING MONTH	32
10.	CONCLUSIONS AND RECOMMENDATIONS	33
	10.1 CONCLUSIONS	33
	10.2 RECOMMENDATIONS	33



## LIST OF TABLES

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

# APPENDIX A LAYOUT PLAN OF THE PROJECT

- APPENDIX B PROJECT ORGANIZATION STRUCTURE
- APPENDIX C THREE-MONTHS ROLLING CONSTRUCTION PROGRAMME
- APPENDIX D MONITORING LOCATIONS FOR IMPACT MONITORING
- APPENDIX E CALIBRATION CERTIFICATE OF MONITORING EQUIPMENT AND HOKLAS-ACCREDITATION CERTIFICATE OF THE TESTING LABORATORY
- APPENDIX F EVENT AND ACTION PLAN
- APPENDIX G IMPACT MONITORING SCHEDULE
- APPENDIX H DATABASE OF MONITORING RESULT
- APPENDIX I GRAPHICAL PLOTS FOR MONITORING RESULT
- APPENDIX J METEOROLOGICAL DATA
- APPENDIX K WASTE FLOW TABLE



APPENDIX LIMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURESAPPENDIX MCOMPLAINT LOGAPPENDIX NIMPLEMENTATION STATUS FOR WATER QUALITY MITIGATION MEASURES



1

#### 1. INTRODUCTION

#### PROJECT BACKGROUND

- 1.1.1 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") has been awarded the CEDD Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract was December 2016 and the Contract Period is 70 months.
- 1.1.2 The Services under the Service Contract is to provide environmental monitoring and audit (EM&A) services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and Environmental Impact Assessment (EIA) Report of Development of Anderson Road Quarry and other relevant statutory requirements.
- 1.1.3 Development of Anderson Road Quarry is to provide land and the associated infrastructures for the proposed land used at the existing Anderson Road Quarry Site at the North-eastern of East Kowloon according to the final Recommended Outline Development Plan (hereinafter named as the Project Works).
- 1.1.4 To facilitate the project management and implementation, the Service Contract has been divided to three CEDD contracts including Contract NE/2016/01 (Contract 1), Contract NE/2016/05 (Contract 2) and Contract NE/2017/03 (Contract 3). As advised by the Resident Engineer (RE), the commencement date of Contract 1 was 21 December 2016 and the major construction works has been commenced on 12 April 2017. The commencement date of Contract 2 was 31 March 2017 and the major construction activities have been commenced on 2 May 2017. Furthermore, Contract 3 was commenced on 31 May 2018 and the major construction activities works was commenced in November 2018. The EM&A programme under the Project was commenced on 12 April 2017 pursuant to the requirement under the EM&A manual. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021.
- 1.1.5 According to the Approved EM&A Manual, air quality and noise monitoring are required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Baseline monitoring including air quality and noise conducted between *January* and *April 2019* at all designated monitoring locations were before construction work commencement. Furthermore, the Baseline Monitoring Report which verified by the Independent Environmental Checker (hereinafter referred as "the IEC") has been submitted to Environmental Protection Department (EPD) on *9 May 2017* for endorsement.
- 1.1.6 This is the **50<sup>th</sup>** monthly EM&A report presenting the monitoring results and inspection findings for the period from **1 to 31 May 2021** (hereinafter referred as "Reporting Period").

#### **1.2 REPORT STRUCTURE**

- 1.2.1 The monthly EM&A Report is structured into the following sections:-
  - Section 1 Introduction
  - Section 2 Project Organization and Construction Progress
  - Section 3 Summary of Impact Monitoring Requirements
    - Section 4 Air Quality Monitoring
    - Section 5 Construction Noise Monitoring
    - Section 6 Waste Management
    - Section 7 Site Inspections



Section 8Environmental Complaints and Non-ComplianceSection 9Implementation Status of Mitigation MeasuresSection 10Conclusions and Recommendations



#### 2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

#### 2.1 CONSTRUCTION CONTRACT PACKAGING

2.1.1 To facilitate the project management and implementation, the Project was divided by 3 works contracts as described in following. The details of each contract are summarized below and the delineation of each contract is shown in *Appendix A*.

#### Contract 1 (Contract No. NE/2016/01)

- 2.1.2 Commencement date of Contract 1 was in late December 2016 and the major scope of work of Contract 1 is listed below:
  - Formation of about 40 hectares (ha) of land platforms at the ARQ site and the associated geotechnical works;
  - Road works including construction of approximately 3-kilometer long vehicular roads, footpaths, cycle tracks, an approximately 130-meter long underpass at the southern end an a public transport terminus at the northern end at the ARQ site;
  - Provision of and improvement to water supply, drainage and sewerage systems as well as landscaping works; and
  - Construction of proposed subway structures and lift tower structures of pedestrian connectivity facilities.

#### Contract 2 (Contract No. NE/2016/05)

- 2.1.3 Commencement date of Contract 2 was 31 March 2017 and the major Scope of Work of the Contract 2 is listed below:
  - (i) Construction of the following pedestrian connectivity facilities with covered elevated walkways, covered at grad walkways, escalators, life towers with associate staircase and lifts:-
    - (a) Linking Hiu Kwong street with Hiu Ming Street (E1)
    - (b) Linking the proposed "Footbridge Link at Sau Ming Road" with Hiu Ming Street (E2, C1 and E3)
    - (c) Linking the proposed bus-to-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Lin Tak Road (E12)
  - (ii) Construction of bus-to-bus interchange (BBI) at Tseung Kwan O Tunnel Toll Plaza;
  - (iii) Associated landscape works;
  - (iv) Construction of green routes connecting to Jordan Valley Park and Choi Wing Road; and
  - (v) Slope improvement works in the vicinity of Po Lam Road South and other associated works.

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

- 2.1.4 The commencement date of Contract 3 is on 31 May 2018 and the major Scope of Work of the Contract 3 is listed below:
  - (i) Site formation and road works in the following sections:-
    - (a) at junction of Clear Water Bay Road (CWBR) and On Sau Road constructed under the Development at Anderson Road (DAR) project including the provision of U-turn facility and noise mitigation measures (RIW1);
    - (b) at New Clear Water Bay Road (NCWBR) near Shun Lee Tsuen Road including the road widening works at NCWBR, modification of existing subway structure and provision of noise mitigation measures (RIW2); and
    - (c) at the junction of Lin Tak Road and Sau Mau Ping Road, construction of flyover above Tseung Kwan O Road, provision of loading and unloading bays along Lin Tak Road and noise mitigation measures (RIW3).
  - (ii) construction of the following pedestrian connectivity facilities with covered elevated walkways, escalators and lift towers with associated staircases and lifts:-



- (a) linking Anderson Road Quarry site with the DAR Site (except the works covered under Contract 1) (System A and System B);
- (b) linking Hiu Ming Street with Hiu Yuk Path (E8); and
- (c) linking the proposed bus-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Sau Mau Ping Road (E11).
- (iii) Associated landscape works.

#### Contract 5 (Contract No. ED/2019/02)

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

#### 2.2 **PROJECT ORGANIZATION**

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

#### 2.3 CONSTRUCTION PROGRESS

2.3.1 The 3-month rolling construction programme for Contracts 1, 2, 3 and 5 are shown in *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:

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
- Slurry removal to continue
- Cat ladder installation to continue

#### Construction of Internal Road L2

- Site formation works, road kerb construction and sub-base filling to continue.
- Drainage modification work and gully pipe construction 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
- Lower level drainage in progress.

#### Retaining Wall RWA10 at Road L3

Backfill behind Bays 6 to 16 to continue.

Box Culvert BC2 at Internal Road L3:

- Backfilling at Bay 17 chamber structure to continue.
- Cat ladder installation to continue

Construction of Internal Road L5:

• The First Batch paving block were arrived. Laying the concrete kerb construction for the cycle track and footpath before the demonstration of porous concrete pavement set up.

Water Pumping Station including Retaining Wall RWA13 and RWA14:

- Backfill at retaining wall RWA13 to continue.
- To continue the construction of drainage.
- To continue with the ABWF Works (i.e.: floor, timber door)
- To continue with the E&M Works.
- To continue the mass concrete fill works at slope A13.

Water Reservoir

- To continue excavation works for watermain works and construct valve chamber.
- To commence excavate additional manhole and dia.600mm pipe.
- To continue the construction works of WSD Access.

#### Artificial Flood Attenuation Lake

- To commence excavate additional manhole and dia.600mm pipe.
- To continue the drainage works.
- To continue the construction of floating bridge guide posts, wall of landing and retaining wall.

Underground Stormwater Retention Tank (USRT)

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

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

- RWA12 Bays 15-21 wall construction to continue.
- Road works at footpath (paving block construction) between CH100 to CH430 in progress
- U-channel construction between SC42a to existing catchpit in progress

PC System A

- North Tower 4th portion of wall and slab construction completed.
- South Tower pile cap construction completed.
- North Tower 5th portion of wall and slab construction in progress.
- South Tower 1st portion of wall and slab construction to continue.

PTT

• Steel work and PMMA panel installation to continue, road construction, make good formation condition and rock breaking for cycle track would continue.

Slope Stabilization at Portion B1:

 Continue to carry out stabilization works at Feature No. 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 3rd berm
- Continue to carry out stabilization works at Feature No. 11NE-D/C1005, 11NE-D/C948, 11NE-D/C949, 11NE-D/C982, 11NE-B/C902 and Slope A15b.
- Continue to trim the slope profile of Feature 11NE-D/C903 and A15a.

Road Improvement Works at Po Lam Road:

- Construction of permanent footpath and surface drainage system to continue
- Excavation works to facilitate installation of the E&M/ACT/Earth pit and construction of permanent footpath and surface drainage system in progress

• Remove the existing concrete pavement and reconstruction in progress

#### MEP Works:

- Submission of designs and materials related to MEP works in progress .
- E&M installation works at PTT in progress to continue.
- E&M installation works at Pump Hall of Fresh Water Pumping Station in progress .
- E&M installation works at Pedestrian Connectivity System B in progress.
- E&M installation works at Underground Stormwater Retention Tank in progress .
- E&M installation works at Underpass in progress

Site Formation Work at Portion B13:

Land Parcel R2-4 & R2-6 Excavation to formation level in progress.

Site Formation Work at Portion B3:

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

Site Formation Work at Portion B14:

Backfilling and proof rolling/ SRT at Portion B14 in progress.

Site Formation Work at Portion E2 & E3:

- UC construction at land parcel E2 completed
- Excavation to formation level at land parcel E3 in progress
- Backfilling & SRT of fill slope zone of Portion E3 in progress

Site Formation Work at Portion G3 & Slope A6:

- Excavation to formation level at land parcel G3 in progress.
- Chain-link fence installation at land parcel G3 in progress.

Cavern (Portion B5):

- Rock fall fence installation complete.
- Rock mapping of Sub Area 5 slope at Ch0-Ch40 on level +196mPD 202mPD to continue.
- Rock breaking of existing slope at Ch40-240 on level +200-202mPD to continue
- Rock dowel construction at Ch80-140 on level+203+206 to continue
- Planter wall construction to continue.

Underpass, East and West Portal:

- East Portal Rock slope A1 stabilization works in progress
- East Portal structure works for RWA1C & RWA1B retaining wall in progress
- East Portal install the crossing duct pipe and concrete carriageway
- West Portal Buttress wall construct work in progress
- West Portal Slope A3 construct u-channel and berm in progress
- Underpass laying drainage layer, subbase and flexible pavement in progress

Hiking Trail (Portion B5):

• Continue to erect the formwork and cast the concrete from CH1055 to 1793.



#### Contract 2 (NE/2016/05)

- 1. Soil Nail Construction:
- Excavation, Slope cutting work, Drilling and Grouting
- 2. Mass Concrete Construction: Working at height, lifting.
- 3. Framework and falsework installation and dismantling: Working at height, lifting, manual handling, moving plant
- 4. Lift tower construction: Working at height, lifting, Electric Arc welding, Flame cutting
- 5. Rebar fixing: Working at height, lifting, Electric arc welding, Flame cutting

#### 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;

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.

Contract 5 (ED/2019/02)

- Portion 1: Erection of Site Hoarding, Tree Felling
- Portion 2: Erection of Site Hoarding, Tree Felling
- Portion 3: Erection of Site Hoarding, Trial Pit Excavation
- 2.3.3 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 1, 2, 3 and 5 are presented in *Tables 2-1, 2-2 and 2-3*.

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

		License/Permit Status				
Item	Description	Permit no./ account	Valid I	Period	Status	
		no./ Ref. no.	From	То	Status	
1	Form NA – Notification pursuant to Air pollution Control (Construction 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-RE0301-21	17 Apr 21	16 Jul 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	Waste Disposal Regulation – Billing	Account no.7027548	12 Apr 17	End of project	Valid	



Monthly Environmental Monitoring & Audit Report (May 2021)

		License/Permit Status				
Item	Description	Permit no./ account	Valid	Period	Status	
		no./ Ref. no.	From	То	Status	
	Account for Disposal of					
	Construction Waste					

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

		License/Permit Status			
Item	Description	Permit no./ account Valid Period			Status
		no./ Ref. no.	From	То	
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	Notification to EPD on 29	9 May 2018.		
2	Chemical Waste Producer Registration	For Area R1W3 (E11) Registration no. WPN : 5213-294-C4239-04	6-Aug-18	End of Project	Valid
		For Area System A Registration no. WPN: 5213-293-C4239-05	6-Aug-18	End of Project	Valid
		For Area System B Registration no. WPN 5213-294-C4239-03	6-Aug-18	End of Project	Valid
		For Area E8 Registration no. WPN 5213-292-C4239-06	6-Aug-18	End of Project	Valid
3	WaterPollutionControlOrdinance	For Area R1W3 (E11) WT00032742-2018	18-Jan-19	31-Jan-24	Valid
	– Discharge License	For Area System A WT00033223-2019	31-Jan-19	31-Jan-24	Valid
		<b>For Area System B</b> WT00033229-2019	24-Jun-19	30-Jun-24	Valid
		<u>For Area E8</u> WT00033224-2019	21-Mar-19	31-Mar-24	Valid
4	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	Account no.7031075	20 July 2018	End of project	Valid
5	Construction Noise Permit	GW-RE0483-21	18 May 21	27 Jun 21	Valid
		GW-RE0390-21	4 May 21	30 Jun 21	Valid

Table 2-4 Status of Environmental Licenses and Permits of the Contract 5

		nse/Permit Status			
Item	Description	Permit no./ account Valid Period		Period	Status
		no./ Ref. no.	From	То	
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust)	EPD ref. no. 466364	NA	NA	Valid



Monthly Environmental Monitoring & Audit Report (May 2021)

		Licen	se/Permit Sta	tus	
Item	Description	Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	
	Regulation				
2	Chemical Waste	Registration no.		End of	
	Producer	WPN 5298-293-W3611-01	12 May 21	project	Valid
	Registration				
3	Water Pollution				
	Control Ordinance	Working in Drognoss			
	– Discharge	Working in Progress			
	License				
4	Waste Disposal				
	Regulation –				
	Billing Account for	Working in Progress			
	Disposal of				
	Construction Waste				



#### 3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

#### **3.1 GENERAL**

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

#### **3.2 MONITORING PARAMETERS**

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

Table 3-1Sum	Table 3-1         Summary of EM&A Requirements				
<b>Environmental Issue</b>	Parameters				
Air Quality	• 1-hour TSP by Real-Time Portable Dust Meter; and				
All Quality	• 24-hour TSP by High Volume Air Sampler				
	• Leq(30min) in normal working days (Monday to Saturday)				
Noise	07:00-19:00 except public holiday				
Noise	• Supplementary information for data auditing, statistical results				

such as L<sub>10</sub> and L<sub>90</sub> shall also be obtained for reference.

#### Такіа 2 1 C. FENDA D

#### 3.3 MONITORING LOCATIONS

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

Table 3-2	Impact Monitoring Stations – Air Quality

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



Monthly Environmental Monitoring & Audit Report (May 2021)

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

Note 1: The ASR is under construction.

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

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

#### **Construction Noise**

3.3.2 According to the EM&A Manual Section 5.5, three (3) most representative and affected noise sensitive receivers (NSR) were selected as monitoring stations. As recommended by the RE and agreed by IEC, one (1) additional noise monitoring location is proposed to add in Oi Tat House of On Tat Estate (hereafter "NMS-4") to oversee the possible noise impact pose to the resident in On Tat Estate, which is an existing NSR close to the major works activities. Moreover, review of impact monitoring location was proposed to IEC in view of the current site condition and it was agreed by all parties. The details of noise monitoring location are listed in Table 3-3 and illustrated in Appendix D.

ID	NSR ID in EIA	Location	Status
NMS-1	Site C2 –	Ground of planned school at DAR facing 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	

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

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.
- (<sup>^</sup>) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

#### Addition Construction Noise Monitoring Location

3.3.3 A Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations under Contract 3. According to the Work Instruction, one noise monitoring station was proposed to install at System A Area and two station monitoring points were proposed to install at E8 Area. The noise monitoring locations are shown in *Table 3-4* below and illustrated in *Appendix D*.

Table 3-4	Additional Impact Monitoring Stations – Construction Noise
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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

#### 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

#### <u>Noise Monitoring</u>

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

#### 3.5 MONITORING EQUIPMENT

#### Air Quality Monitoring

3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50),* Appendix *B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to prove that the instrument is capable of



achieving a comparable results to the HVS. The instrument should be calibrated regularly, and the 1-hour sampling shall be determined on yearly basis by the HVS to check the validity and accuracy of the results measured by direct reading method. The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.

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

#### Table 3-5Air Quality Monitoring Equipment

Equipment		Model
24-hour TSP	High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
	Calibration Kit	TISCH Model TE-5025A
1- hour TSP Portable Dust Meter		Sibata LD-3B Laser Dust Monitor

#### Noise Monitoring

- 3.5.3 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms<sup>-1</sup>.
- 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 & B&K-4231
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

#### 3.6 MONITORING METHODOLOGY

#### 1-hour TSP

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

24-hour TSP

- 3.6.3 The equipment used for 24-hour TSP measurement is Thermo Andersen Model GS2310 TSP high volume air sampling system, which complied with *EPA Code of Federal Regulation*, *Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:
  - (a.) An anodized aluminum shelter;
  - (b.) A 8"x10" stainless steel filter holder;
  - (c.) A blower motor assembly;



- (d.) A continuous flow/pressure recorder;
- (e.) A motor speed-voltage control/elapsed time indicator;
- (f.) A 7-day mechanical timer, and
- (g.) A power supply of 220v/50 Hz
- 3.6.4 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m<sup>3</sup>/min and 1.7m<sup>3</sup>/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<sup>3</sup>/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period and the HOKLAS accredited certificate of laboratory are attached in *Appendix E*.

#### Noise Monitoring

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



- 3.6.8 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq<sub>(30 min)</sub> in six consecutive Leq<sub>(5 min)</sub> measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.
- 3.6.9 The sound level meter will be mounted 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 <sup>3</sup> )		Limit Level (µg/m <sup>3</sup> )	
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 3-7
 Action 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 Const	ruction Noise
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Monitoring Logotion	Action Level	Limit Level in dB(A)			
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays				
NMS-1		<b>70</b> dB(A) <sup>Note 1</sup> / <b>65</b> dB(A) <sup>Note 1</sup>			
NMS-2(@)		70  dB(A) = 703  dB(A)			
NMS-3(:)		<b>75</b> dB(A)			
NMS-4*		<b>75</b> dB(A)			
NMS-4a#		<b>75</b> dB(A)			
NMS-5#	When one or more documented	<b>75</b> dB(A)			
NMS-6~	complaints are received	<b>75</b> dB(A)			
NMS-7~		<b>75</b> dB(A)			
NMS-8^		<b>75</b> dB(A)			
CN1+		<b>70</b> dB(A) <sup>Note 1</sup> / <b>65</b> dB(A) <sup>Note 1</sup>			
CN2+		<b>70</b> dB(A) <sup>Note 1</sup> / <b>65</b> dB(A) <sup>Note 1</sup>			
CN3+		<b>75</b> dB(A)			

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

Note: If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Remark: (\*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.

(@) NMS-2 was effective on 15 November 2019.

(:) NMS-3 was effective on 3December 2019

(#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 Nov 2017.

(~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.

(^) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

(+) Additional noise monitoring locations as instructed by AECOM which effective in Dec 18.

3.7.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

#### 3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.8.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- 3.8.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



#### 4. AIR QUALITY MONITORING

#### GENERAL

- 4.1.1 In the Reporting Period, air quality monitoring was performed at the active designated monitoring locations AMS-1a, AMS-2, AMS-3, AMS-5, AMS-6 and AMS-7. Since installation of HVS for 24-hour TSP at AMS-2 and AMS-3 were pending approval from relevant departments, only 1-hour TSP monitoring was conducted at AMS-2 and AMS-3. No monitoring was conducted at AMS-4 since they are planned ASR which are still under construction/ not yet constructed.
- 4.1.2 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

#### 4.2 RESULTS OF AIR QUALITY MONITORING

4.2.1 In the Reporting Period, a total of *108* events of 1-hour TSP monitoring and *24* events of 24-hours TSP were carried out and the monitoring results are summarized in *Tables 4-1 to 4-5*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

	24-hour		1-hour	TSP (µg/m <sup>3</sup>	)	
Date	TSP (µg/m <sup>3</sup> )	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading
5-May-21	61	3-May-21	13:45	49	47	48
11-May-21	31	8-May-21	9:13	74	83	76
17-May-21	25	14-May-21	13:48	63	60	61
22-May-21	23	20-May-21	14:30	54	59	57
28-May-21	22	26-May-21	14:38	58	53	57
Average (Range)	32 (22 - 61)	Average (Range)			60 (47 - 83)	

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

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

1-hour TSP (µg/m <sup>3</sup> )							
Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading			
3-May-21	9:17	56	59	66			
8-May-21	9:21	67	79	60			
14-May-21	9:13	75	73	77			
20-May-21	9:06	70	67	68			
26-May-21	9:10	64	65	67			
Average (Range)			68 (56 - 79)				
(Ra	inge)		(30 - 19)				

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

1-hour TSP (µg/m³)							
Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading			
3-May-21	12:48	63	65	68			
8-May-21	9:07	77	69	83			
14-May-21	12:30	74	77	73			
20-May-21	12:15	66	77	70			
26-May-21	12:20	76	71	74			
Ave	erage		72				
	ange)	(63 - 83)					



fuble i i bullinary of 2 i hour and i hour i bi from toring results (first) c)							
	24-hour		1	l-hour TSP (µ	g/m <sup>3</sup> )		
Date	TSP (µg/m <sup>3</sup> )	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading	
5-May-21	59	3-May-21	9:30	58	59	56	
11-May-21	20	8-May-21	13:08	56	89	74	
17-May-21	34	14-May-21	9:29	80	79	77	
22-May-21	22	20-May-21	9:21	74	72	73	
28-May-21	24	26-May-21	9:28	82	79	76	
Average	32	Average		72			
(Range)	(20 - 59)	(Rang	(Range)		(56 - 89)		

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

Table	4-5
Table	<b>-</b> -J

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

	24-hour	1-hour TSP (µg/m <sup>3</sup> )				
Date	TSP (µg/m <sup>3</sup> )	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading
5-May-21	79	3-May-21	9:48	63	60	58
11-May-21	21	8-May-21	13:21	79	83	68
17-May-21	28	14-May-21	9:42	78	81	73
22-May-21	13	20-May-21	9:51	75	79	78
28-May-21	42	26-May-21	9:45	76	80	77
Average (Range)	37 (13 - 79)	Averag (Range	-		74 (58 - 83)	

Table 4-6	Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)
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	24-hour	1-hour TSP (µg/m³)					
Date TSP (µg/m <sup>3</sup> )	Date	Start Time	1 <sup>st</sup> reading	2 <sup>nd</sup> reading	3 <sup>rd</sup> reading		
5-May-21	35	3-May-21	13:20	61	67	66	
11-May-21	20	8-May-21	13:47	74	65	68	
17-May-21	26	14-May-21	13:15	83	78	80	
22-May-21	20	20-May-21	13:48	76	77	74	
28-May-21	20	26-May-21	13:52	79	73	70	
Average	24	Average			73		
(Range)	(20 - 35)	(Range)		(61 - 83)			

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



#### 5. CONSTRUCTION NOISE MONITORING

#### GENERAL

- 5.1.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations NMS2 and NMS3 and the additional monitoring locations NMS4a, NMS5, NMS6, NMS7 and NMS8. No monitoring was conducted at the designated monitoring locations NMS1 since they are the planned NSR and still under the construction.
- 5.1.2 In addition, a Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations, i.e., CN1, CN2 and CN3 for Contract 3. Impact noise monitoring was performed at the three additional noise monitoring locations since December 2018.
- 5.1.3 The noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

#### 5.2 NOISE MONITORING RESULTS IN REPORTING MONTH

5.2.1 In the Reporting Period, a total of **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 <sub>eq30min</sub> ), dB(A)							
Date	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7	
3-May-21	61	62	68	67	67	66	
14-May-21	62	64	68	67	69	69	
20-May-21	62	62	68	66	64	67	
26-May-21	64	64	68	65	70	61	
Limit Level	<b>70</b> dB(A) / <b>65</b> dB(A) <sup>Note 1</sup>			75 dB(A)			

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

Table 5-1a	Summary of	Construction	<b>Noise Monitoring</b>	<b>Results for</b>	Contract 1

Table 5-1a Summary 01	Table 5-1a Summary of Construction Moise Monitoring Results for Contract 1				
Construction Noise Level (L <sub>eq30min</sub> ), dB(A)					
Date NMS8					
7-May-21	62				
13-May-21	67				
22-May-21	63				
25-May-21	65				
31-May-21 62					
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 5-2
 Summary of Construction Noise Monitoring Results for Contract 3

Construction Noise Level (L <sub>eq30min</sub> ), dB(A)					
Date	CN1	CN2	CN3		
7-May-21	64	61	62		
13-May-21	57	65	62		
22-May-21	58	65	68		
25-May-21	62	65	64		



Monthly Environmental Monitoring & Audit Report (May 2021)

31-May-21	63	65	62	
Limit Level	<b>70</b> dB(A) / <b>65</b> dB(A) <sup>Note 1</sup>	<b>70</b> dB(A) <sup>Note 1</sup> / <b>65</b> dB(A) <sup>Note 1</sup>	75 dB(A)	
$N_{++}$ 1. $N_{++}$ $L_{+++}$ $L_{+++}$ $L_{++}$ $L_{++}$ $L_{++}$ $L_{++}$ $L_{+++}$ $L_{++++}$ $L_{++++++++++++++++++++++++++++++++++++$				

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

5.2.3 As shown in Tables 5-1 and 5-2, no Limit Level exceedance was recorded in this Reporting Period. 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.

True of	Cont	ract 1	Cont	tract 2	Cont	ract 3	Cont	ract 5
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Total generated Inert C&D	16.995	_	0.22	_	1.173	_	0	_
Materials ('000m <sup>3</sup> ) (#)	10.775		0.22		1.175		0	
Hard Rock and Large Broken Concrete ('000m <sup>3</sup> )	0	-	0	-	0	-	0	-
Reused in this Contract (Inert) ('000m <sup>3</sup> )	6.428	-	0	-	0	-	0	-
Reused in other Projects (Inert) ('000m <sup>3</sup> )	9.857	*	0	-	0.126	*	0	-
Disposal as Public Fill (Inert) ('000m <sup>3</sup> )	0.711	TKO 137	0.13	TKO 137	1.047	TKO 137	0	-

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

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

(\*) Approved alternative disposal ground.



	Cont	ract 1	Contract 2		Contract 3		Contract 3	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0.005	Licensed collector	0	-	0	-	0	-
Recycled Paper / Cardboard Packing ('000kg)	0.015	Licensed collector	0	-	0.055	Licensed collector	0	-
Recycled Plastic ('000kg)	0.004	Licensed collector	0	-	0.776	Licensed collector	0	-
Chemical Wastes ('000kg)	0	-	0	-	0	-	0	-
General Refuses ('000m <sup>3</sup> )	0.116	SENT	0.09	SENT	0.027	SENT	0.03	SENT

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



#### 7. SITE INSPECTION

#### 7.1 REQUIREMENTS

7.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should be carried out to confirm the environmental performance.

#### 7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

#### Contract 1

7.2.1 In the Reporting Period, joint site inspections for Contract 1 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 6<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup> and 25<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 6<sup>th</sup> May 2021. No non-compliance was noted. The findings / deficiencies of *Contract 1* that observed during the weekly site inspection are listed in *Table 7-1*.

Date	Findings / Deficiencies	Follow-Up Status
6 May 2021	<ul> <li>Stagnant water cumulated inside the drip tray after rainstorm should be cleaned.</li> <li>Oil stain observed on ground should be cleaned.</li> </ul>	<ul> <li>Stagnant water inside drip tray was removed.</li> <li>Oil stain was removed.</li> </ul>
11 May 2021	• The Contractor was reminded to provide water spraying on site. (General)	• Reminder only.
18 May 2021	<ul> <li>Drip tray should be provided for chemical storage on-site. (Cavern Area)</li> <li>Tarpaulin sheet should be covered on ground during the plant maintenance. (East Portion)</li> <li>Proper maintenance should be provided for the acoustic mat wrapped on the breaker. (General)</li> </ul>	<ul> <li>Chemical container was removed.</li> <li>Oil stain was removed.</li> <li>Reminder only.</li> </ul>
25 May 2021	<ul> <li>The Contractor was reminded to provide proper mitigation measure to prevent outflow of muddy water to the public.</li> <li>Activate emergency team promptly not withstanding office hours.</li> </ul>	<ul><li>Reminder only.</li><li>Reminder only.</li></ul>

Table 7-1Site Observations of Contract 1

### Contract 2

7.2.2 In the Reporting Period, joint site inspections for Contract 2 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 5<sup>th</sup>, 12<sup>th</sup>, 18<sup>th</sup> and 26<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 26<sup>th</sup> May 2021. No non-compliance was noted. The findings / deficiencies of *Contract 2* that observed during the weekly site inspection are listed in *Table 7-2*.

Table 7-2	<b>Site Observations</b>	of	Contract 2
		~	001111100

Date	Findings / Deficiencies	Follow-Up Status
28 April 2021 (Last Reporting Period)	• Accumulation of stagnant water at concrete pits should be avoided. (Portion 1)	• The concrete pits was filled with sands.
5 May 2021	• The Contractor should review the drainage system at portion 3.	• Stagnant water was removed and avoided.



Date	Findings / Deficiencies	Follow-Up Status
	• The Contractor should clean the muddy trail at site entrance at portion 1.	• Muddy trail was cleaned at the site entrance of Portion 1.
	• The Contractor was reminded to provide pump device for drainage system at portion 1.	• Reminder only.
12 May 2021	• The Contractor was reminded to ensure water quality mitigation measures are properly implemented.	Reminder only.
	• The Contractor was reminded to dispose the on-site general refuse regularly.	Reminder only.
18 May 2021	• The Contractor was reminded to ensure water quality mitigation measures are properly implemented.	Reminder only.
26 May 2021	• The Contractor was reminded to ensure water quality mitigation measures are properly implemented at Portion 2.	• Reminder only.
	• The Contractor was reminded to remove any stagnant water accumulated on site after rainy days.	• Reminder only.

#### Contract 3

7.2.3 In the Reporting Period, joint site inspections for Contract 3 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 7<sup>th</sup>, 14<sup>th</sup>, 21<sup>st</sup> and 28<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 7<sup>th</sup> May 2021. No non-compliance was noted. The findings / deficiencies of *Contract 3* that observed during the weekly site inspection are listed in *Table 7-3* 

Date	Findings / Deficiencies	Follow-Up Status
7 May 2021	• The Contractor should provide proper NRMM label for generator at F1.	NRMM label was provided for generator at F1
	• The Contractor was reminded to remove stagnant water at F1	• Reminder only.
14 May 2021	• The Contractor was reminded to clean stagnant water within system A.	• Reminder only.
21 May 2021	<ul> <li>The Contractor should provide sand bags for public U-channel at System B (PC1)</li> <li>The Contractor was reminded to cover the cement bags at System B.</li> <li>The Contractor was reminded to treat the muddy water before discharge at PC1.</li> </ul>	<ul> <li>Sand bags were provided.</li> <li>Reminder only.</li> <li>Reminder only.</li> </ul>
28 May 2021	• The Contractor was reminded to clear stagnant water at E11.	• Reminder only.

#### Contract 5

7.2.4 In the Reporting Period, joint site inspections for Contract 5 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 6<sup>th</sup>, 13<sup>th</sup>, 20<sup>th</sup> and 25<sup>th</sup> May 2021 in which IEC joined the site inspection with SSEMC on 4<sup>th</sup> June 2021. No non-compliance was noted. The findings / deficiencies of *Contract 5* that observed during the



weekly site inspection are listed in *Table 7-4* 

Date	Findings / Deficiencies	Follow-Up Status
6 May 2021	• The Contractor was reminded to keep good housekeeping on site.	• Reminder only.
13 May 2021	<ul> <li>The sand stockpile near the retained trees should be covered properly. (E6)</li> <li>The Contractor was reminded to provide dust suppression measures, e.g. water spraying, during the breaking work. (E6)</li> </ul>	<ul> <li>The sand stockpile was covered properly.</li> <li>Reminder only.</li> </ul>
	• The Contractor was reminded to maintain good housekeeping. (E6)	• Reminder only.
20 May 2021	The breaker head of the breaker should be wrapped by acoustic materials to reduce noise impact. (E6)	• The breaker head was wrapped by acoustic materials and erection of acoustic mat was implemented. (E5)
	• The Contractor was reminded to dispose of the felled trees properly. (E5)	• Reminder only.
	• The Contractor was reminded to provide dust suppression measures during the breaking work. (E6)	• Reminder only.
25 May 2021	• The Contractor should protect the trees to be transplanted from damaging by construction activities. (E5).	• Tree protection zone was provided.



#### 8. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### 8.1 Environmental Complaint, Summons and Prosecution

- 8.1.1 In the Reporting Period, no environmental complaint was received. Besides, no summons and prosecution under the EM&A Programme was lodged for the project. Investigation for the complaint was undertaken by the ET and presented in following sections.
- 8.1.2 The complaint log and Investigation Reports issued in the Reporting Period are shown in *Appendix M*.
- 8.1.3 The statistical summary table of environmental complaint, summons and prosecution is presented in *Tables 8-1, 8-2* and *8-3*.

Donouting David	Contract	Environmental Complaint Statistics		
Reporting Period	no.	Frequency	Cumulative	<b>Complaint Nature</b>
1 Apr 2017 – 30 Apr 2021	1	0	48	Dust, Noise and light nuisance
21 Mar 2017 – 30 Apr 2021	2	0	10	Noise
31 May 2018 – 30 Apr 2021	3	0	8	Waste Management, Noise, Water Quality
30 Mar 2021 – 30 Apr 2021	5	0	0	NA
	1	0	48	NA
1 21 Mar 2021	2	0	10	NA
1 – 31 May 2021	3	0	8	NA
	5	0	0	NA

 Table 8-1
 Statistical Summary of Environmental Complaints

#### Table 8-2 Statistical Summary of Environmental Summons

Donouting David	Contract	<b>Environmental Summons Statistics</b>		
Reporting Period	no.	Frequency	Cumulative	<b>Summons Nature</b>
1 Apr 2017 – 30 Apr 2021	1	0	0	NA
21 Mar 2017 – 30 Apr 2021	2	0	0	NA
31 May 2018 – 30 Apr 2021	3	0	0	NA
30 Mar 2021 – 30 Apr 2021	5	0	0	NA
1 – 31 May 2021	1	0	0	NA
	2	0	0	NA
	3	0	0	NA
	5	0	0	NA

#### Table 8-3 Statistical Summary of Environmental Prosecution

Depenting Devied	Contract	<b>Environmental Prosecution Statistics</b>		
Reporting Period	no.	Frequency	Cumulative	<b>Prosecution Nature</b>
1 Apr 2017 – 30 Apr 2021	1	0	0	NA
21 Mar 2017 – 30 Apr 2021	2	0	0	NA
31 May 2018 – 30 Apr 2021	3	0	0	NA
30 Mar 2021 – 30 Apr 2021	5	0	0	NA
	1	0	0	NA
1 21 May 2021	2	0	0	NA
1 – 31 May 2021	3	0	0	NA
	5	0	0	NA



#### 9. IMPLEMENTATION STATUS OF MITIGATION MEASURES

#### 9.1 GENERAL REQUIREMENTS

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

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

 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: 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:

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
- Slurry removal to continue



• Cat ladder installation to continue

#### Construction of Internal Road L2

- Site formation works, road kerb construction and sub-base filling to continue.
- Drainage modification work and gully pipe construction 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
- Lower level drainage in progress.

#### Retaining Wall RWA10 at Road L3

Backfill behind Bays 6 to 16 to continue.

#### Box Culvert BC2 at Internal Road L3:

- Backfilling at Bay 17 chamber structure to continue.
- Cat ladder installation to continue

#### Construction of Internal Road L5:

• The First Batch paving block were arrived. Laying the concrete kerb construction for the cycle track and footpath before the demonstration of porous concrete pavement set up.

#### Water Pumping Station including Retaining Wall RWA13 and RWA14:

- Backfill at retaining wall RWA13 to continue.
- To continue the construction of drainage.
- To continue with the ABWF Works (i.e.: floor, timber door)
- To continue with the E&M Works.
- To continue the mass concrete fill works at slope A13.

#### Water Reservoir

- To continue excavation works for watermain works and construct valve chamber.
- To commence excavate additional manhole and dia.600mm pipe.
- To continue the construction works of WSD Access.

#### Artificial Flood Attenuation Lake

- To commence excavate additional manhole and dia.600mm pipe.
- To continue the drainage works.
- To continue the construction of floating bridge guide posts, wall of landing and retaining wall.

#### Underground Stormwater Retention Tank (USRT)

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

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

- RWA12 Bays 15-21 wall construction to continue.
- Road works at footpath (paving block construction) between CH100 to CH430 in progress
- U-channel construction between SC42a to existing catch pit in progress



#### PC System A

- North Tower 4th portion of wall and slab construction completed.
- South Tower pile cap construction completed.
- North Tower 5th portion of wall and slab construction in progress.
- South Tower 1st portion of wall and slab construction to continue.

PTT

• Steel work and PMMA panel installation to continue, road construction, make good formation condition and rock breaking for cycle track would continue.

Slope Stabilization at Portion B1:

• Continue to carry out stabilization works at Feature No. 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 4th berm.
- Continue to carry out stabilization works at Feature No. 11NE-D/C1005, 11NE-D/C948, 11NE-D/C949, 11NE-D/C982, 11NE-B/C902 and Slope A15b.
- Continue to trim the slope profile of Feature No. 11NE-D/C903 and A15a.

Road Improvement Works at Po Lam Road:

- Construction of permanent footpath and surface drainage system to continue
- Excavation works to facilitate installation of the E&M/ACT/Earth pit and construction of permanent footpath and surface drainage system in progress
- Remove the existing concrete pavement and reconstruction in progress

MEP Works:

- Submission of designs and materials related to MEP works in progress .
- E&M installation works at PTT in progress to continue.
- E&M installation works at Pump Hall of Fresh Water Pumping Station in progress.
- E&M installation works at Pedestrian Connectivity System B in progress .
- E&M installation works at Underground Stormwater Retention Tank in progress .
- E&M installation works at Underpass in progress

#### Site Formation Work at Portion B13:

Land Parcel R2-4 & R2-6 Excavation to formation level in progress.

Site Formation Work at Portion B3:

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

#### Site Formation Work at Portion B14:

Backfilling and proof rolling/ SRT at Portion B14 in progress.

Site Formation Work at Portion E2 & E3:

- UC construction at land parcel E2 completed
- Excavation to formation level at land parcel E3 in progress
- Backfilling & SRT of fill slope zone of Portion E3 in progress



Site Formation Work at Portion G3 & Slope A6:

- Excavation to formation level at land parcel G3 in progress.
- Chain-link fence installation at land parcel G3 in progress.

Cavern (Portion B5):

- Rock fall fence installation complete.
- Rock mapping of Sub Area 5 slope at Ch0-Ch40 on level +196mPD 202mPD to continue.
- Rock breaking of existing slope at Ch40-240 on level +200-202mPD to continue
- Rock dowel construction at Ch80-140 on level+203+206 to continue
- Planter wall construction to continue.

Underpass, East and West Portal:

- East Portal Rock slope A1 stabilization works in progress
- East Portal structure works for RWA1C & RWA1B retaining wall in progress
- East Portal install the crossing duct pipe and concrete carriageway
- West Portal Buttress wall construct work in progress
- West Portal Slope A3 construct u-channel and berm in progress
- Underpass installation of central divider, laying bituminous layer
- Underpass- installation of VE panel and cover of cable trough
- Underpass installation E&M lighting support
- Po Lam road installation of drawpit and ducting pipe and u channel

Hiking Trail (Portion B5):

- Continue to erect the formwork and cast the concrete from CH1055 to 1793.
- 9.2.2 Construction activities for Contract 2 in the coming month are listed below:
  - Soil Nail Construction:
    - Excavation, Slope cutting work, Drilling and Grouting
  - Mass Concrete Construction: Working at height, lifting.
  - Framework and falsework installation and dismantling: Working at height, lifting, manual handling, moving plant
  - Lift tower construction: Working at height, lifting, Electric Arc welding, Flame cutting
  - Rebar fixing: Working at height, lifting, Electric arc welding, Flame cutting
- 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).
- 9.2.4 Construction activities for Contract 5 in the coming month are listed below:
  - Portion 1: Erection of Site Hoarding, Tree Felling
  - Portion 2: Erection of Site Hoarding, Tree Felling
  - Portion 3: Erection of Site Hoarding, Trial Pit Excavation

#### 9.3 KEY ISSUES FOR THE COMING MONTH

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



#### 10. CONCLUSIONS AND RECOMMENDATIONS

#### **10.1 CONCLUSIONS**

- 10.1.1 This is **50<sup>th</sup>** monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from **1** to **31 May 2021**.
- 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 In the Reporting Period, no Limit Level exceedance was recorded and no Notification of Exceedance was issued. Moreover, no complaint was received for the project.
- 10.1.4 In the Reporting Period, no Limit Level exceedance was recorded and no Notification of Exceedance was issued. Moreover, no complaint was received for the project.
- 10.1.5 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 1, 2, 3 and 5 in accordance with the EM&A Manual stipulation whereas IEC performed monthly site inspection for both contracts. No non-compliance observed during the site inspection.

#### **10.2 RECOMMENDATIONS**

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

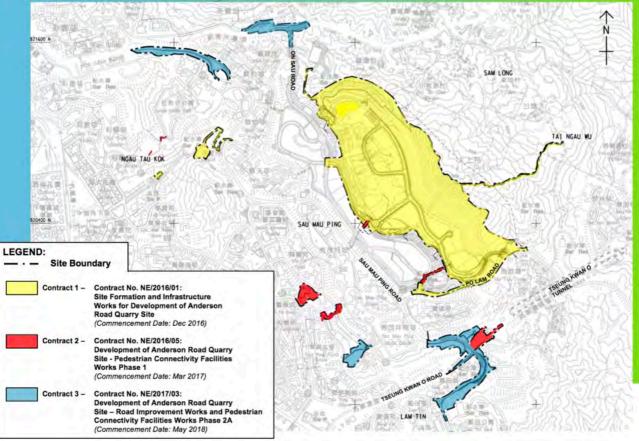


Appendix A

Layout plan of the Project

 $Z:\label{eq:loss} 2016\TCS00864\ (CEDD)\600\EM\&A\ Report\ Submission\Monthly\ EM\&A\ Report\2021\May\ 2021\R0475v2.docx$ 

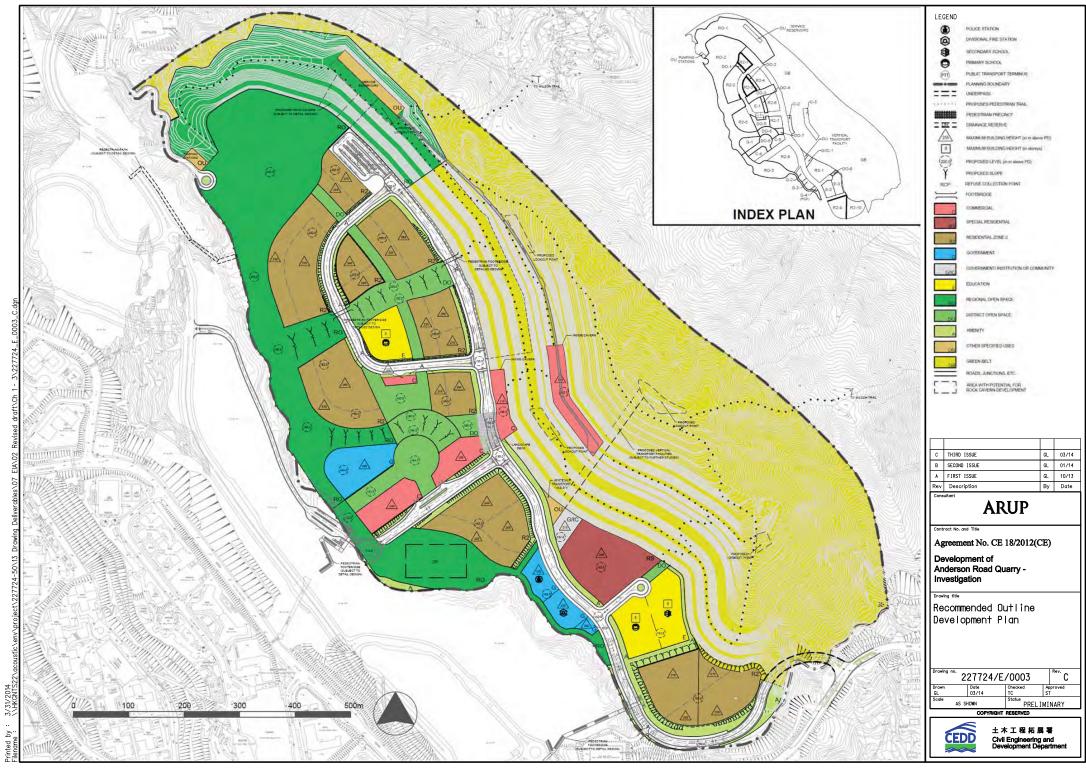
#### **Contract Packages**





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

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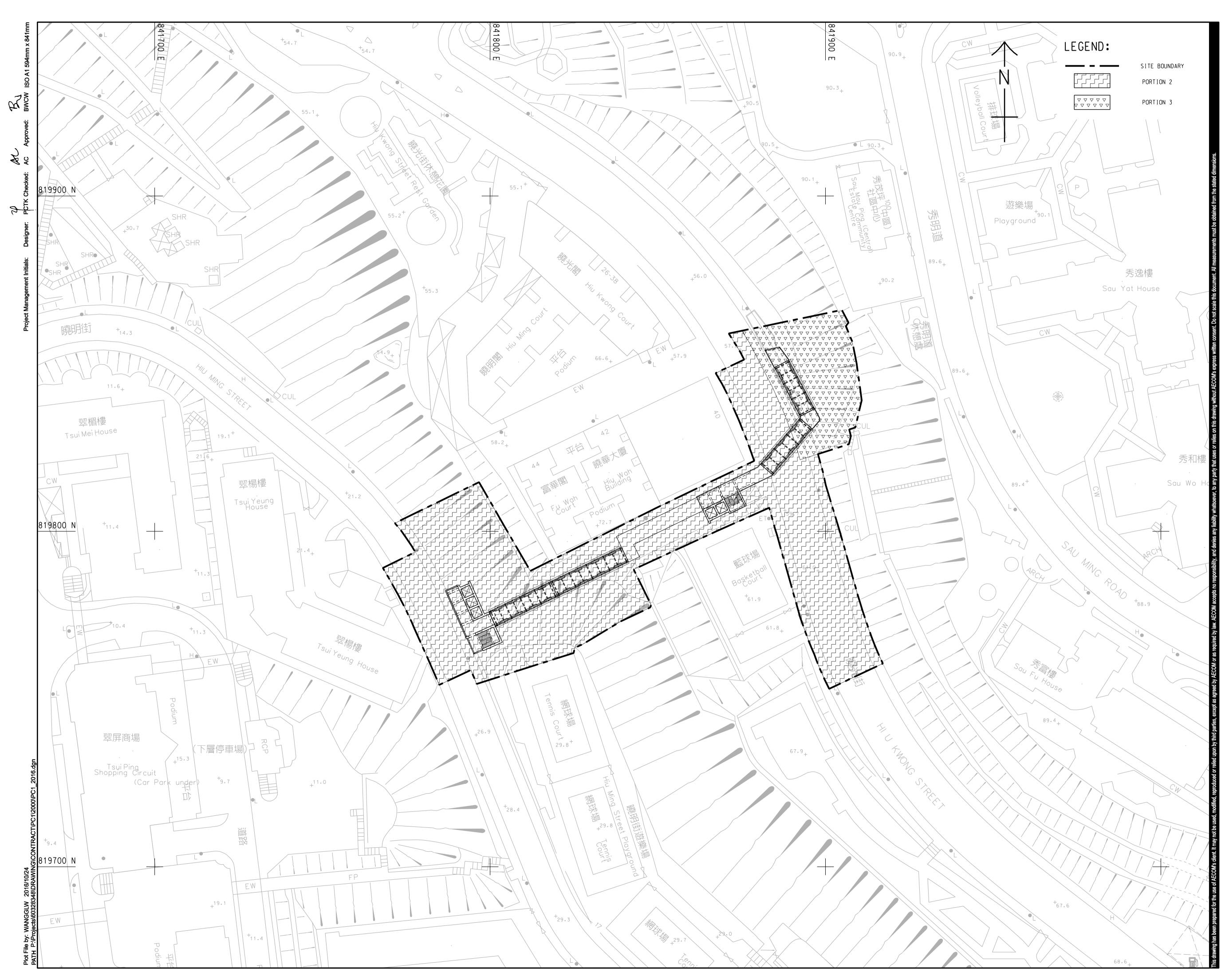


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#### Layout plan of Contract 2 (NE/2016/05)

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# PROJECT <sub>項目</sub>

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

# CLIENT 業主



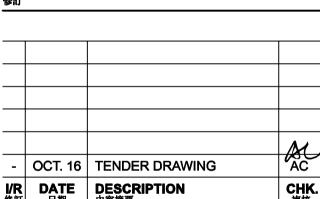
上木工程拓展署
 Civil Engineering and
 Development Department

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# ISSUE/REVISION 修訂



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-	OCT. 16	TENDER DRAWING	AC
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SCALE 比例

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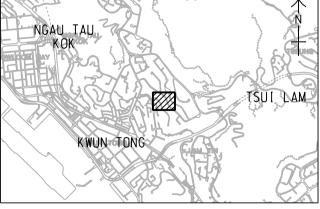
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# **KEY PLAN** A1 1 : 60000 索引圖



# PROJECT NO. <sub>項目編</sub>號

# CONTRACT NO. <sup>合約編號</sup>

60328348

DIMENSION UNIT <sup>尺寸單位</sup>

METRES

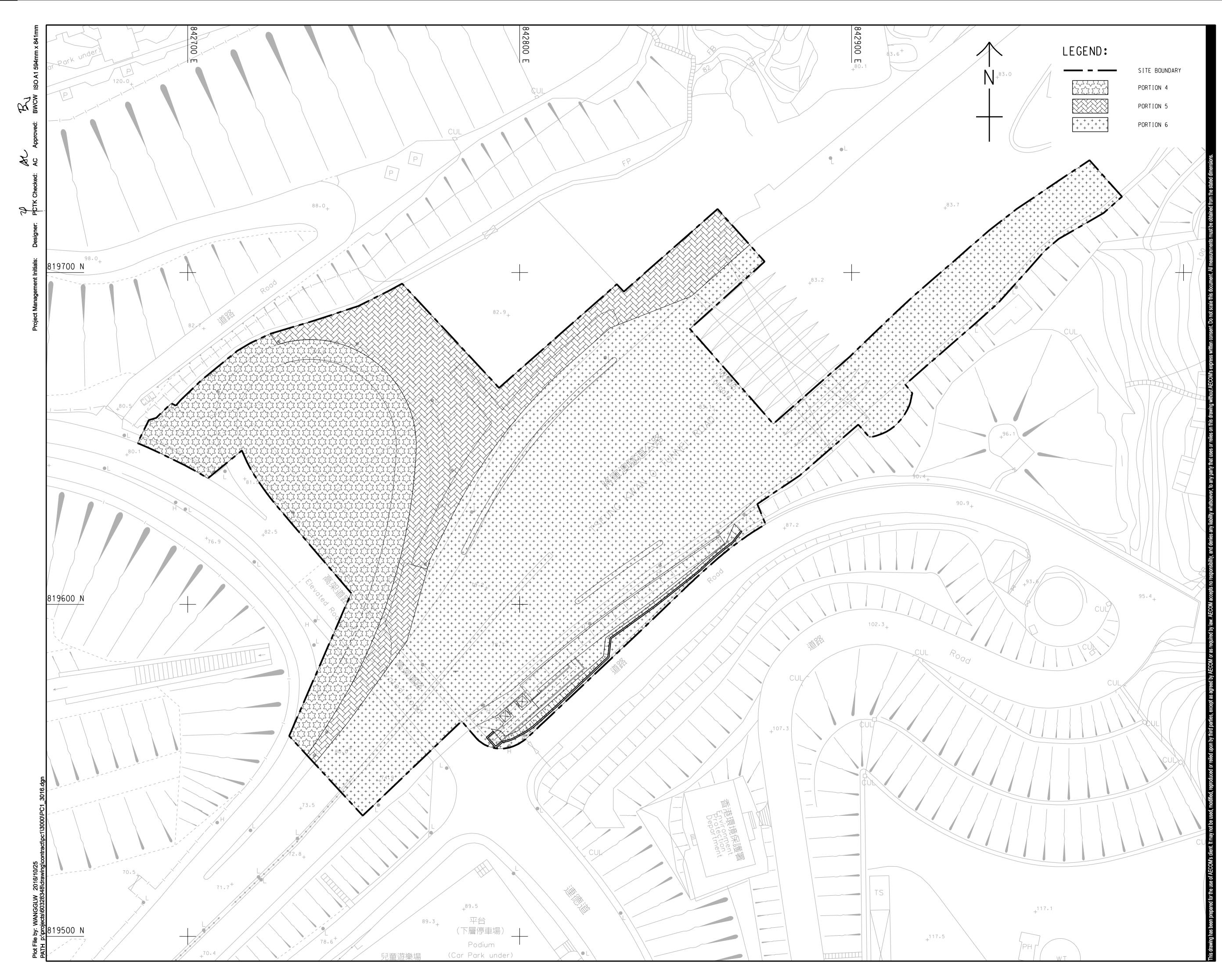
NE/2016/05

SHEET TITLE 圖紙名稱

E2-C1-E3 - PORTION OF SITE

# SHEET NUMBER 岡紙編號

60328348/PC1/2016





# **PROJECT** <sub>項目</sub>

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

# CLIENT 業主

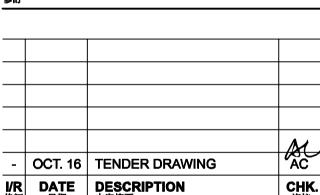


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SCALE <sub>比例</sub>

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KWUN TONG

**KEY PLAN** A1 1 : 60000 索引圖

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60328348/PC1/3016



DIMENSION UNIT 尺寸單位

METRES

60328348

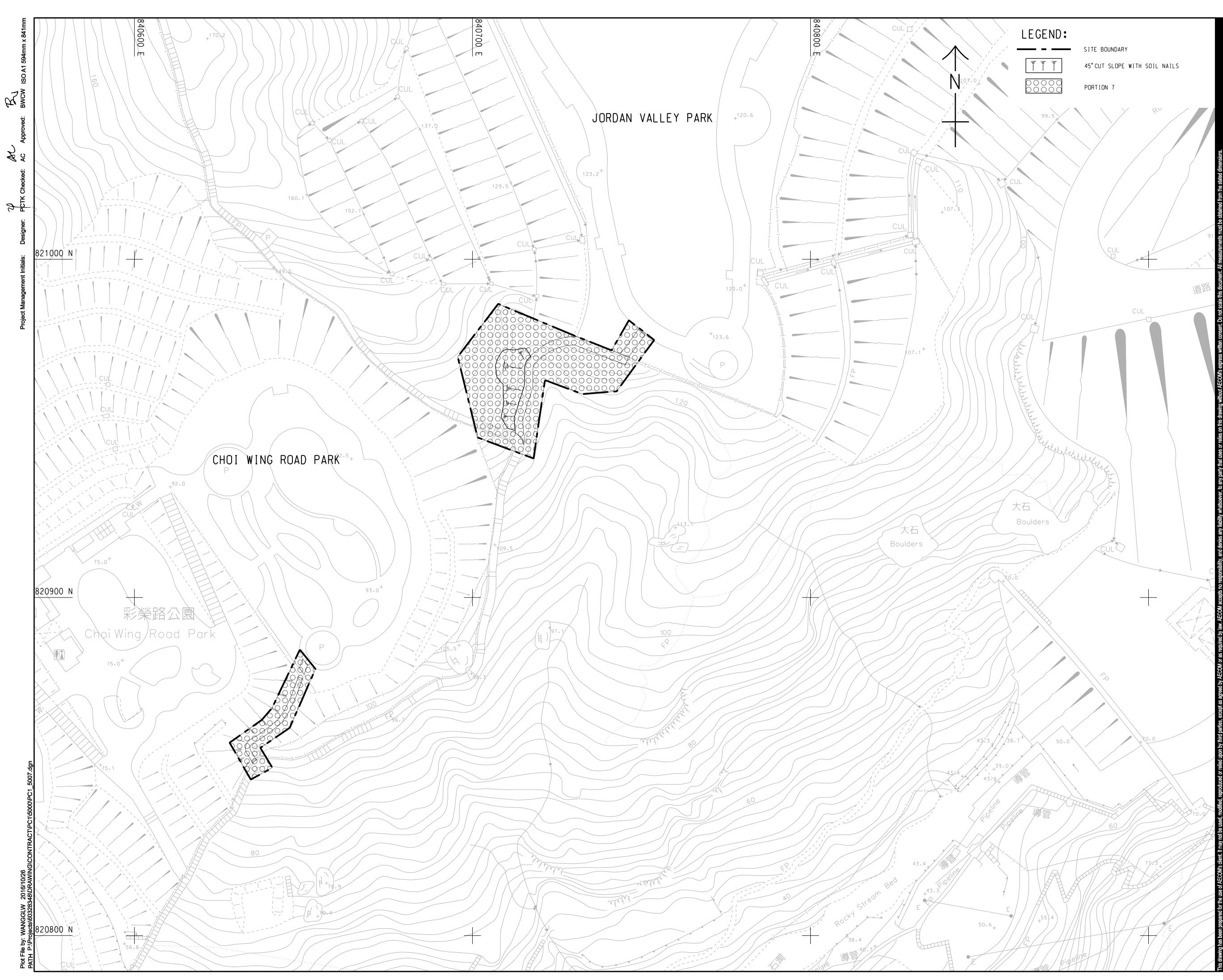
SHEET TITLE 圖紙名稱

**PROJECT NO.** 項目編號

NE/2016/05

E12 AND BBI - PORTION OF SITE

# SHEET NUMBER <sup>國紙編號</sup>





# **PROJECT** <sup>項目</sup>

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

### CLIENT 業主



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# STATUS 階段

SCALE 比例

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NGAU CHT WAN

KOWLOON BAY

PROJECT NO. <sup>項目編</sup>號

SHEET TITLE 圖紙名稱

60328348

**KEY PLAN** A1 1 : 60000 家引圖

**1** 

KWUN TONG

**GREEN ROUTE - PORTION OF SITE** 

-	OCT. 16	TENDER DRAWING	AC
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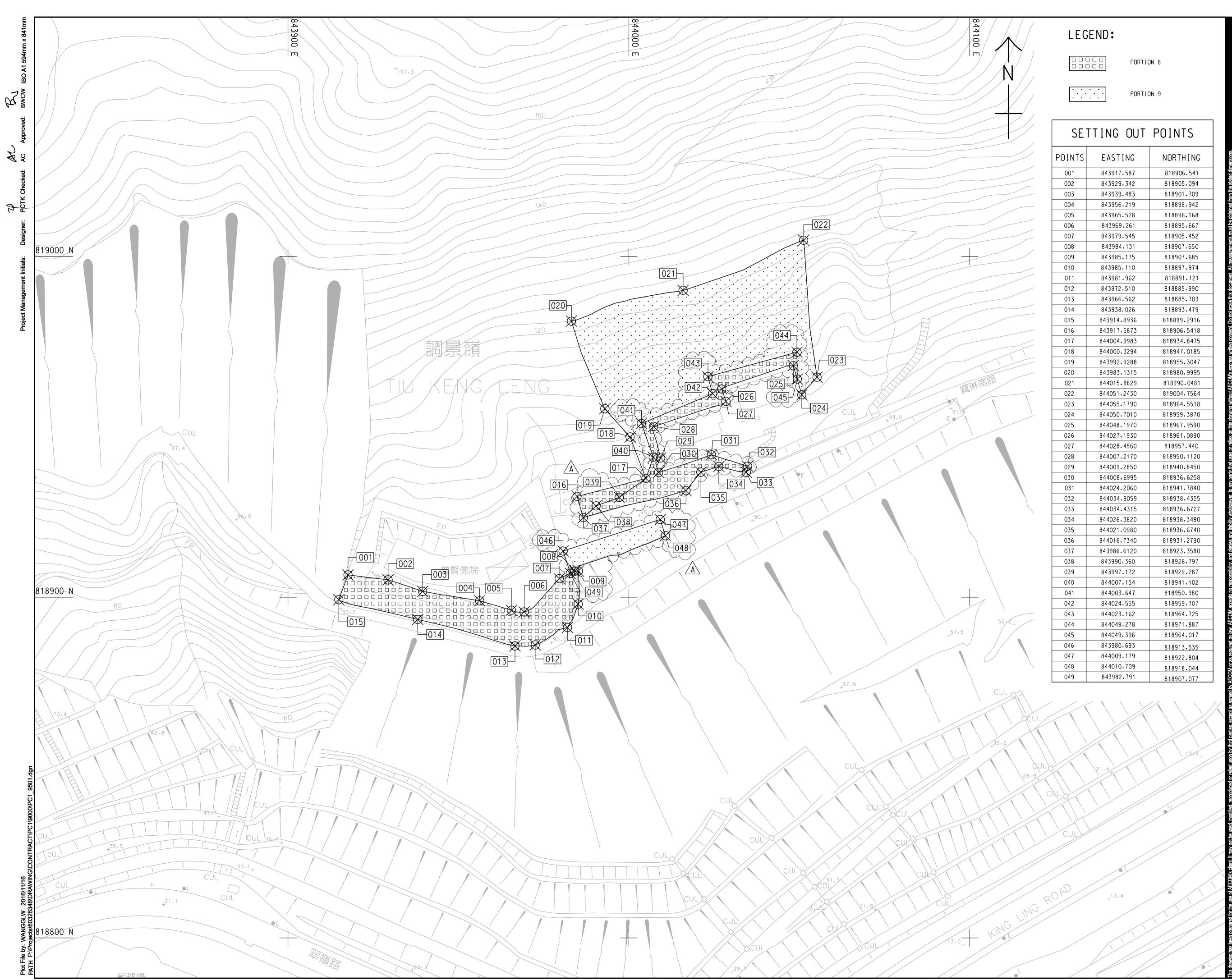
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CONTRACT NO. <sup>合約編號</sup>

NE/2016/05

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SHEET NUMBER 圖紙編號 60328348/PC1/5007





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OINTS	EASTING	NORTHING
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003	843939.483	818901.709
004	843956.219	818898.942
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006	843969.261	818895.667
007	843979.545	818905.452
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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
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015		
	843917.5873	818906.5418
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020	843983.1315	818980.9995
021	844015.8829	818990.0481
022	844051.2430	819004.7564
023	844055.1790	818964.5518
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025	844048.1970	818967.9590
026	844027.1930	818961.0890
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030	844008.6995	818936.6258
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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
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045	844049.396	818964.017
046	843980.693	818913.535
047	844009.179	
048	844010.709	818922.804
049	843982.791	818918.044



# **PROJECT** <sup>項目</sup>

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

### CLIENT <sub>業主</sub>



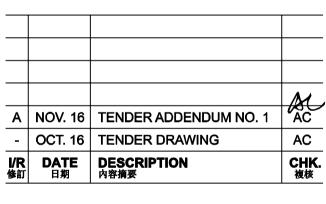
た木工程拓展署
 Civil Engineering and
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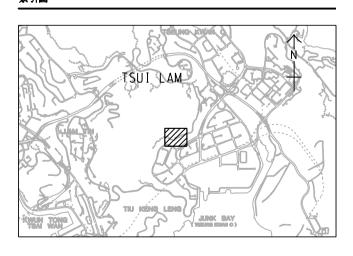
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METRES

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SCALE 比例

**KEY PLAN** A1 1 : 60000 家引國



# PROJECT NO. <sub>項目編</sub>號

CONTRACT NO. <sup>合約編號</sup>

60328348

NE/2016/05

SHEET TITLE 圖紙名稱

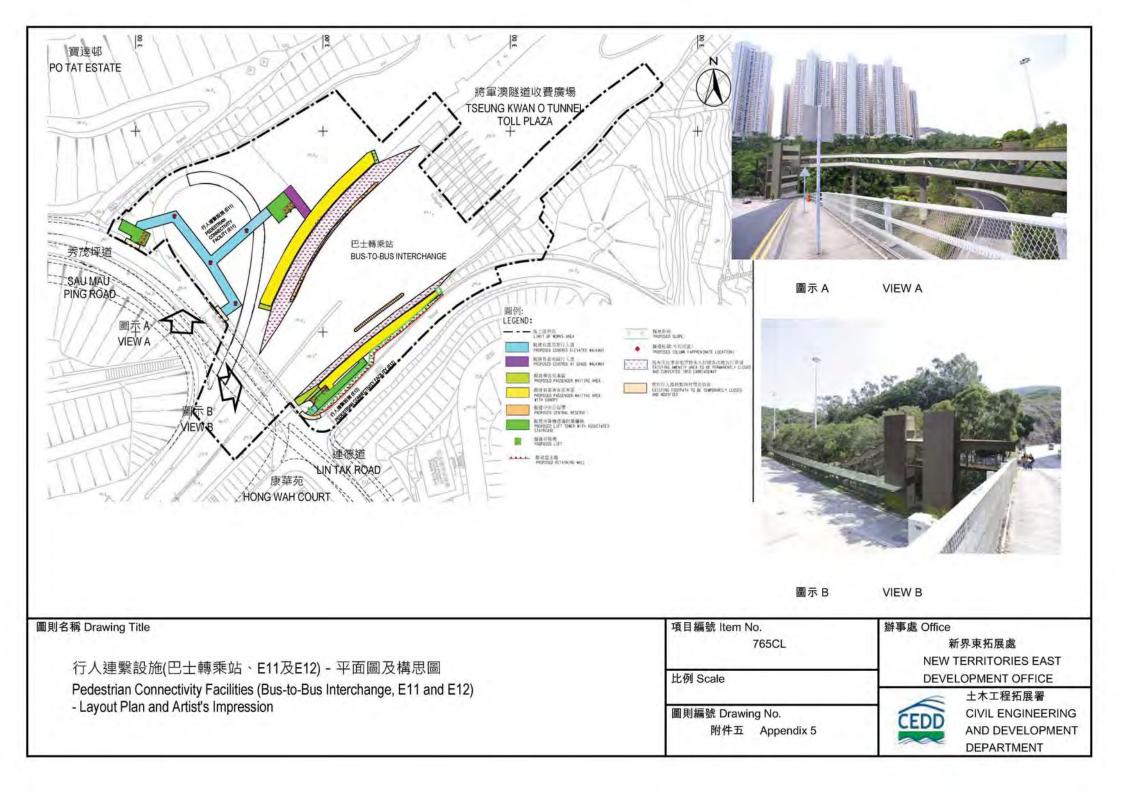
INFRASTRUCTURAL WORKS AT PO LAM ROAD SOUTH TIU KENG LENG – PORTION OF SITE

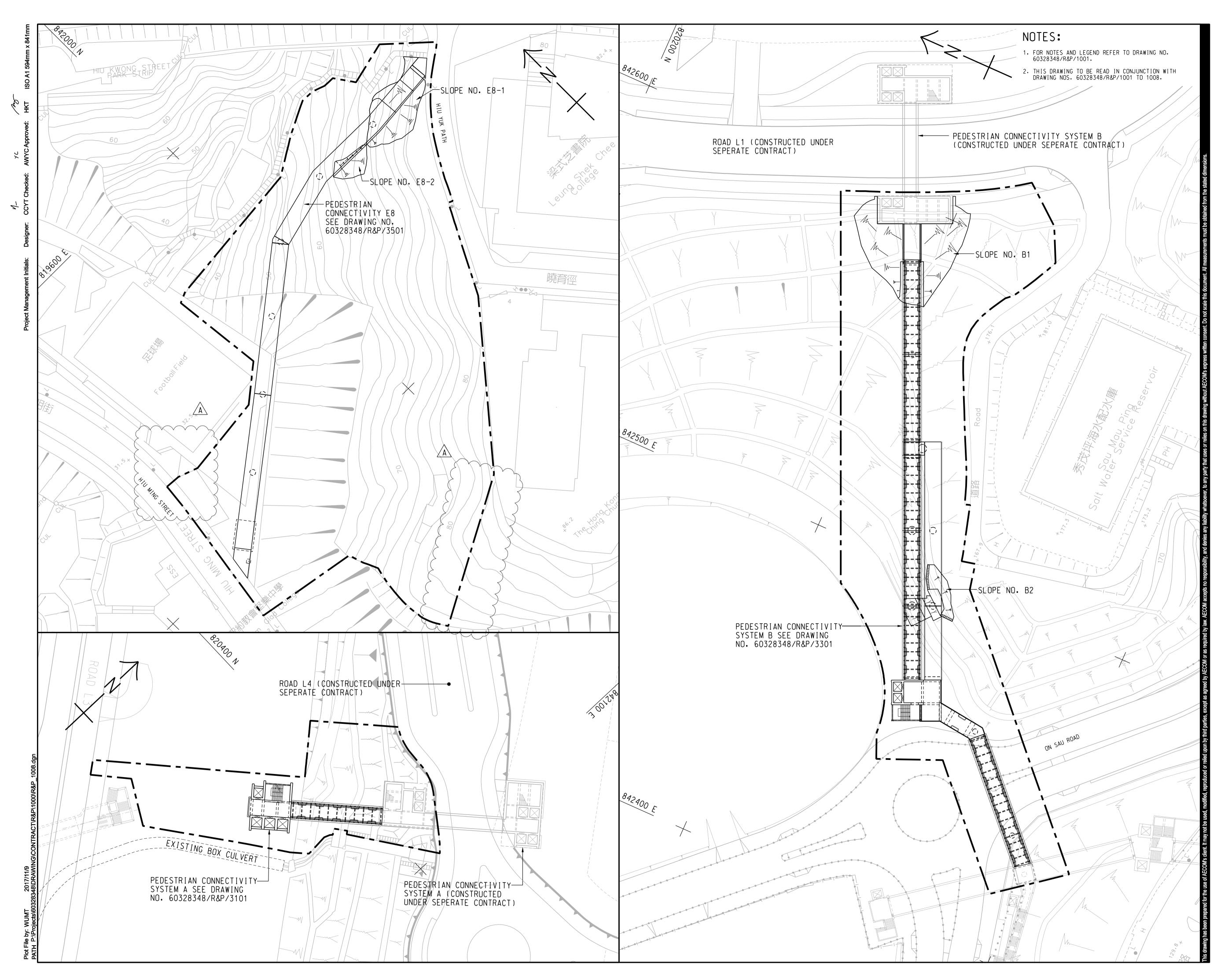
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60328348/PC1/9501A



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







# PROJECT <sup>項目</sup>

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 <sub>業主</sub>



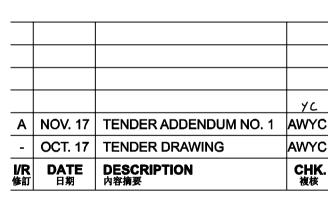
全林工程拓展署 Civil Engineering and Development Department

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# ISSUE/REVISION 修訂



### STATUS <sup>階段</sup>

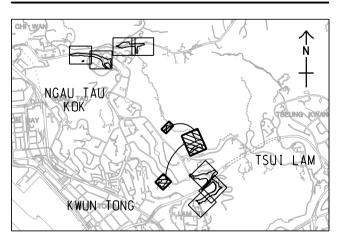
SCALE 比例

A1 1 : 500

### DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 60000 家引國



# PROJECT NO. <sub>項目編</sub>號

SHEET 8 OF 8

60328348

SHEET TITLE 圖紙名稱

# SHEET NUMBER 圖紙編號

60328348/R&P/1008A

# CONTRACT NO. <sup>合約編</sup>號

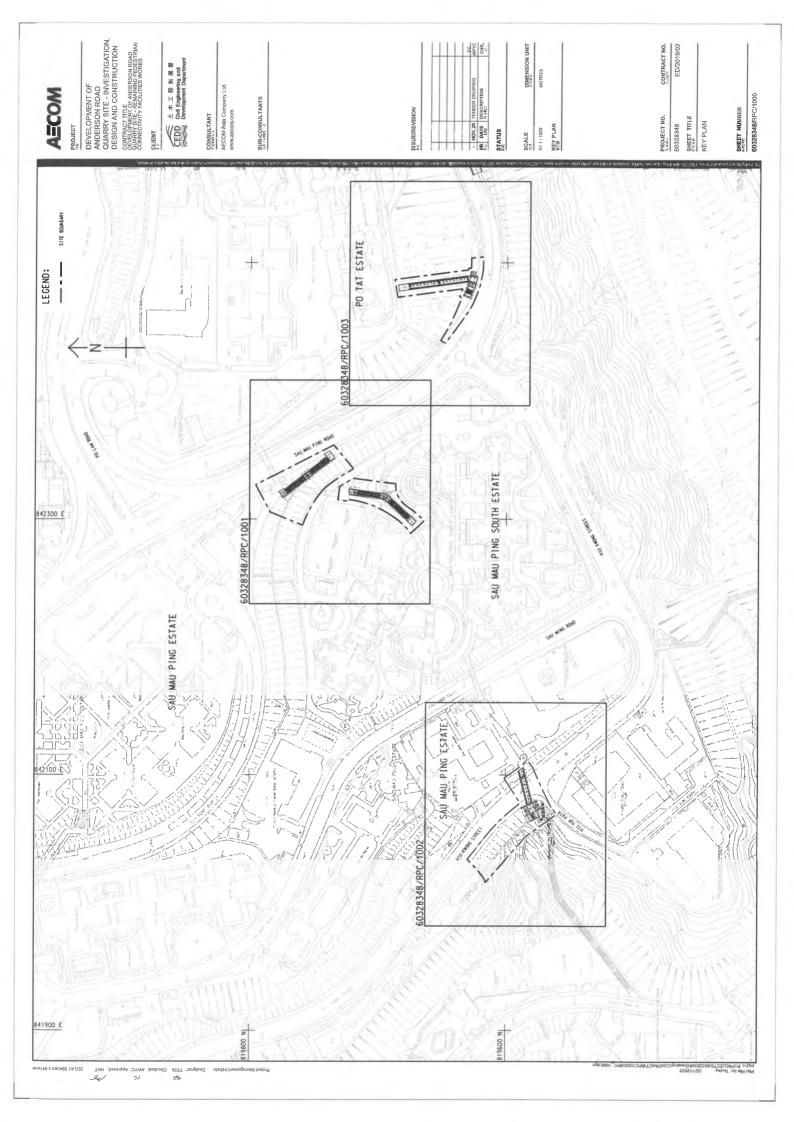
NE/2017/03

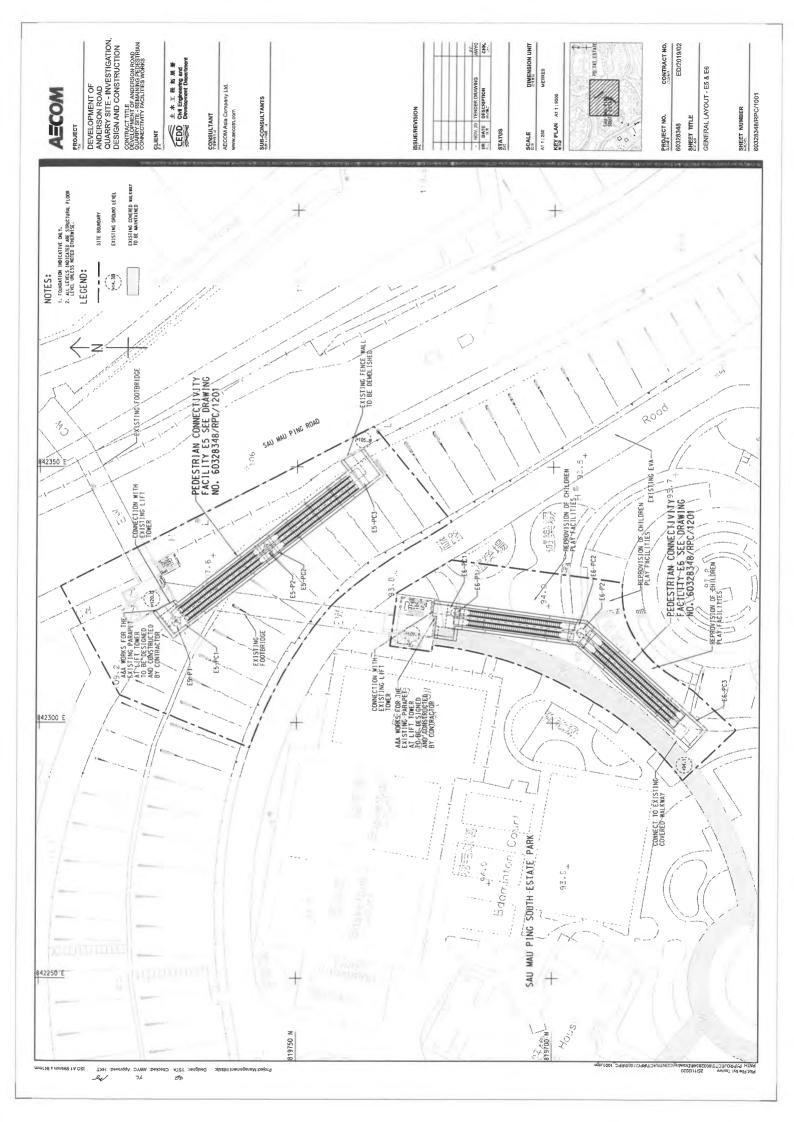
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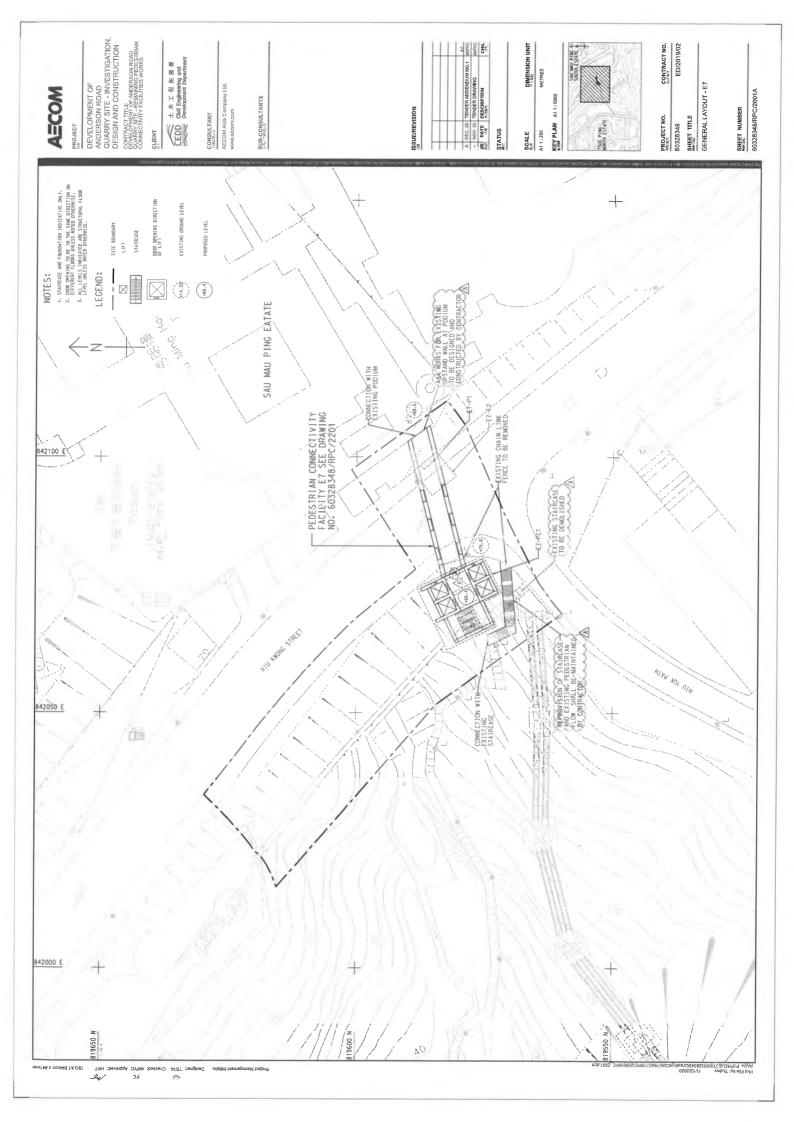


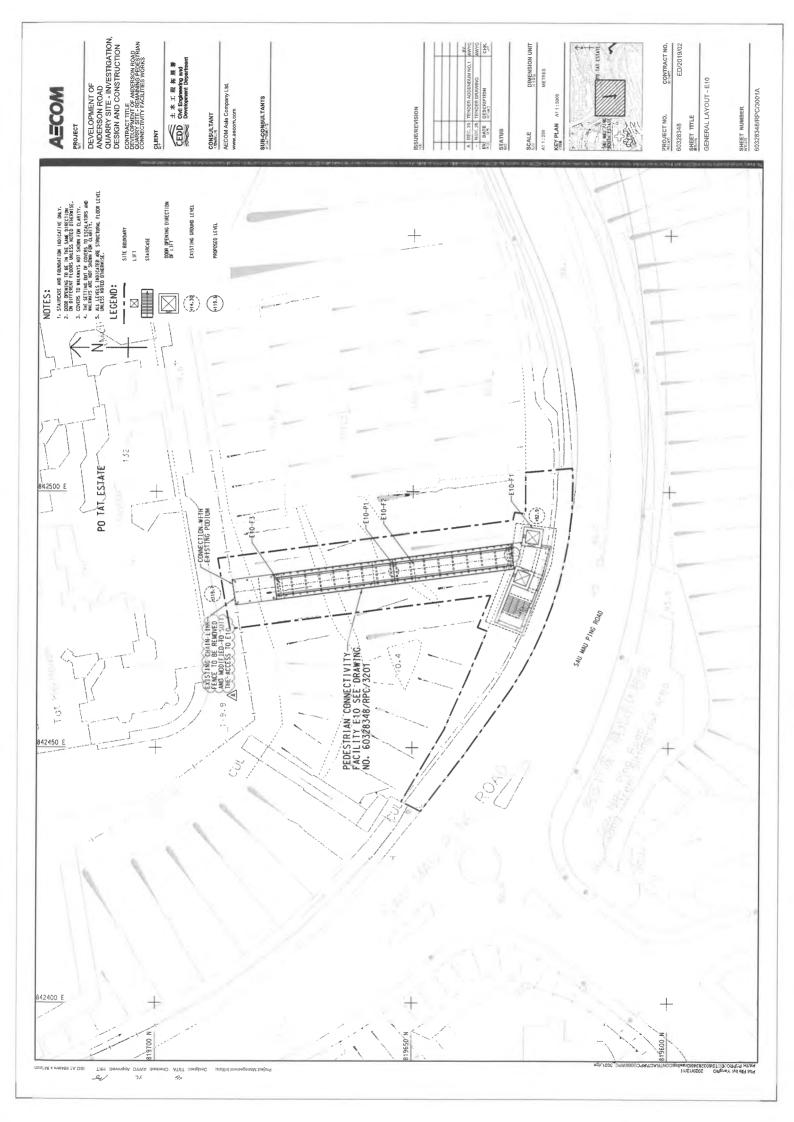
#### Layout plan of Contract 5 (ED/2019/02)

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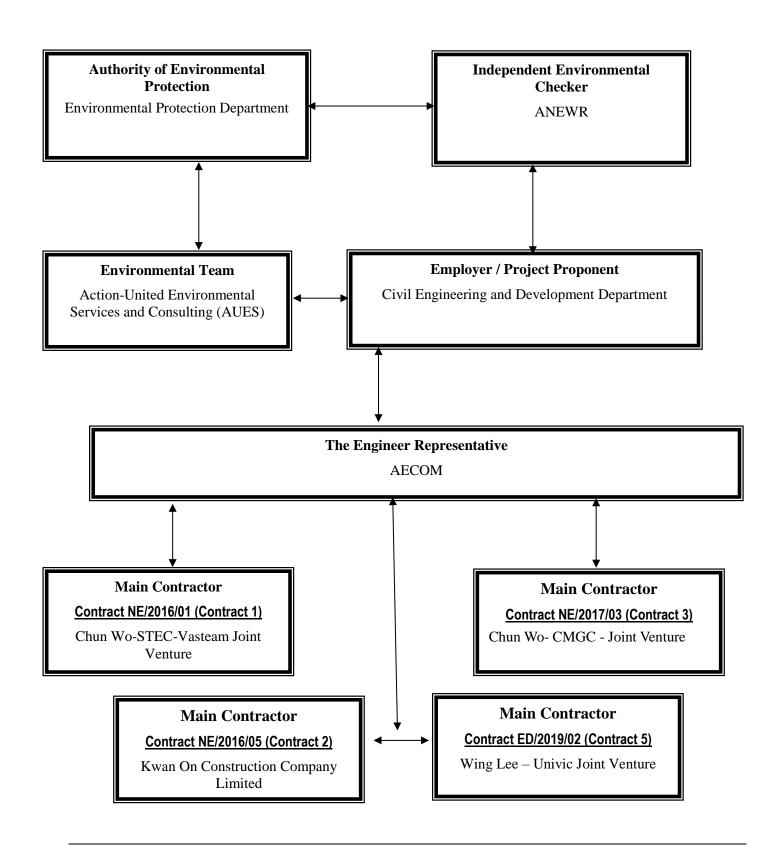


Appendix B

**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	James Choi	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	Jimmy Cheng	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



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	James Choi	2618 2836	3007 8648
KOCCL	Project Director	Ambrose Kwong	2889 2675	2558 6900
KOCCL	Site Agent	Mr. Albert PK Ng	9150 1523	2558 6900
KOCCL	Safety and Environmental Manager	Joly C K Kwong	6111 5711	2558 6900
KOCCL	Environmental Officer	To be Confirmed	-	-
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

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

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

KOCCL (Main Contractor) -Kwan On Construction Company Limited

ANEWR (IEC) – ANewR Consulting Limited



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	ANEWR Independent Environmental Checker		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	To be Confirmed	-	-
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

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

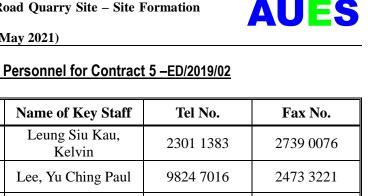
Legend:

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



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

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	9824 7016	2473 3221
AECOM	Senior Resident Engineer	Hon Cho Piu, Bill	5599 1486	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
WL-UJV	Construction Manager	РН Но	9464 1392	2983 6640
WL-UJV	Site Agent	Lee Chi Wai	9255 7014	2983 6640
WL-UJV	Environmental Officer	Guo Liming	5723 9883	2983 6640
WL-UJV	Environmental Supervisor	Chan Chi Yuen	9289 5526	2983 6640
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

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

ANEWR (IEC) - ANewR Consulting Limited



#### Appendix C

#### **Construction Programme**

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



### Contract 1 (NE/2016/01)

<b>(!!)</b>	-

#### 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

vity ID Anderson Rd S Fresh Water Pumpi Stage 5 - ABWF, Fi	CHUN WO - STEC - VASTEAM JOINT VENTURE Activity Name Sub-programme (May 2021) _ccn _210511	BL Project Duration	BL Project Start	BL Project Finish	At Completion	Start	Finish		Qtr 2, 2021		
Fresh Water Pumpi	Sub-programme (May 2021) _ccn _210511				Duration		Ap	r	May		Jun
					1						
Stage 5 - ABWF, Fi	ing Station										
	inishing & E&M										
FWP-1320	Pumping Station E&M works	0			280	29-Jun-20 A	07-Jun-21				Pumping Station E&M works
Salt Water Reservoi	ir										
ABWF, Finishing &	& E&M										
SWR-1410	Saltwater Reservior ABWF & Finishing	0			499	18-Feb-20 A	22-Oct-21				
SWR-1420	Saltwater Reservior E&M works	0			428	29-May-20 A	03-Nov-21				
Fresh Water Reserv	voir										
ABWF, Finishing &	& E&M										
FWR-2000	Freshwater Reservior E&M works	0			280	12-Oct-20 A	18-Sep-21				
RWS Access Road	I & External Works										
FWP-1400	Formation & Slope RWA13 works	0			403	16-May-20 A	18-Sep-21				
FWP-1410	Watermain (DN600 & DN450) & Irrigation System along WSA access road	0			403	16-May-20 A	18-Sep-21				
FWP-1420	Drainage (sewerage & surface) along WSA access road	0			341	30-Jul-20 A	18-Sep-21				
FWP-1430	CLP power supply duct	0			300	16-Sep-20 A	18-Sep-21				
	ction System A & B					10 000 2011	10 000 21				
PC system B PCB-1090	Sustem D. Deslifil could tour	04	10 Aug 10	23-Nov-19	370	16 Eab 20 A	17 May 01				
	System B - Backfill south tower	81	19-Aug-19			16-Feb-20 A	17-May-21			n B - Backfill south tower	
PCB-1100	System B - Backfill north tower	81	19-Aug-19	23-Nov-19	370	16-Feb-20 A	17-May-21		System	n B - Backfill north tower	
PCB-1120	System B - E&M	22	23-Sep-19	19-Oct-19	287	05-Jun-20 A	24-May-21			System B - E&M	
PCB-1130	System B - E&M T&C	24	21-Oct-19	16-Nov-19	85	02-Mar-21 A	15-Jun-21				System B - E&M T&
PCB-1140	System B - Lift installation	75	21-Oct-19	18-Jan-20	121	02-Mar-21 A	28-Jul-21				
PCB-1150	System B - Lift T&C	27	20-Jan-20	22-Feb-20	27	29-Jul-21	28-Aug-21				
PC system A											
PCA-1040	B5 - Construction of Super Structure of Lift Tower (+175mPD to Roof Level)	0			80	23-Feb-21 A	01-Jun-21			B5 - Co	onstruction of Super Structure of Lift Tower
PCA-1050	B5 - Back Fill Lift Tower (North) upwards Formation Level	0			60	02-Jun-21	12-Aug-21				
PCA-1060	B5 - E&M and BS Works	0			90	13-Aug-21	29-Nov-21				
PCA-1140	C1a - Construction of Subway	0			127	02-Jan-21 A	08-Jun-21				C1a - Construction of Subway
PCA-1150	C1a - Construction of Super Structure of Lift Tower (+175m PD to Roof Level)	0			60	09-Jun-21	19-Aug-21				
Artificial Flood Atte	enuation Lake										
Retaining wall Par	rt 12 Bay 50-52)										
ART-1530	Art retain wall - Part 12 bay 50	12	31-Jan-20	13-Feb-20	62	12-Mar-21 A	28-May-21			Art retain wall -	Part 12 bay 50
ART-1540	Art retain wall - Part 12 bay 51	12	07-Feb-20	20-Feb-20	60	19-Mar-21 A	02-Jun-21			Art re	etain wall - Part 12 bay 51
ART-1550	Art retain wall - Part 12 bay 52	12	31-Jan-20	13-Feb-20	62	12-Mar-21 A	28-May-21			Art retain wall -	Part 12 bay 52
Construction of lal	ake bottom										
ART-1990	Art Lake - water testing for bottom of lake	45	28-Feb-20	24-Apr-20	97	02-Mar-21 A	29-Jun-21				
Construction of Fl	loating Bridge										
ART-2050	Art Lake Floating Brdige - backfill	30	01-Nov-19	05-Dec-19	310	16-May-20 A	31-May-21			Art Lake	Floating Brdige - backfill
ART-2060	Art Lake Floating Brdige - footing construction	30	06-Dec-19	13-Jan-20	186	11-Jan-21 A	26-Aug-21				
Slot Chamber											
ART-2080	Art Lake - Slot chamber no. 1 & stop log chamber	18	09-Dec-19	31-Dec-19	304	16-May-20 A	24-May-21			Art Lake - Slot chambe	r no. 1 & stop log chamber
ART-2090	Art Lake - Slot chamber no. 2 & stop log chamber	26	31-Jan-20	29-Feb-20	85	23-Feb-21 A	07-Jun-21			Ait Lake - Slot Glamber	Art Lake - Slot chamber no. 2 & stop
ART-2090	Art Lake - Slot chamber no. 2 & stop log chamber Art Lake - Slot chamber no. 3	33	31-Jan-20	29-Feb-20 09-Mar-20	85	23-Feb-21 A	07-Jun-21				
		33	51-Jan-20	<u>∪</u> 3-IVIAI-2U	60	23-F60-21 A	UT-JUN-21				Art Lake - Slot chamber no. 3
Drainage											
Plan	ned Bar (WP) 🔷 🔷 Planned Milestone (WP)					• • •		D		Date	R
	al Bar $\blacklozenge$ Milestone							g Programn	ne	15-May-21	C1-MPU202105
	cast Bar			Anderso 15-May-		orogramme					

		ge 1 of 3		
	Jul	Qtr 3, 2021		Aug
5				
			Syste	em B - Lift installation
(+175m	Dto Roof Level)			
				B
	Art Lake - water testing for bottom of lak	e		
log char	hber			
Revisio	on	Checked	ł	Approved
		l		1



#### 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	AONTH .	ROLLING PROGRAMME		
Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish	Q:	tr 2, 2021 May	Jun
ART-2110	Art Lake - Outside bay 38-45	63	04-Nov-19	18-Jan-20	369	02-Mar-20 A	31-May-21			Art Lake - Outside bay 38-45
ART-2120	Art Lake - Outside bay 3-8	28	09-Dec-19	13-Jan-20	310	16-May-20 A	31-May-21			Art Lake - Outside bay 3-8
ART-2130	Art Lake - Outside bay 9-28	56	21-Nov-19	31-Jan-20	339	07-Apr-20 A	31-May-21			Art Lake - Outside bay 9-28
ART-2140	Art Lake - Outside bay 50-52	14	31-Jan-20	15-Feb-20	197	28-Sep-20 A	31-May-21			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	10-Dec-19	27-Dec-19	306	11-Jun-20 A	22-Jun-21			Treatment
ART-1630	Treatment plant - Backfilling (by course material) to 197.1mPD, 8.2m Depth	30	28-Dec-19	05-Feb-20	156	11-Jan-21 A	22-Jul-21			
Bioretention System	stem									
ART-2150	Art Lake - Part 1,2,4	72	01-Feb-20	29-Apr-20	298	13-Jun-20 A	15-Jun-21			Art Lake - Part 1,2,4
ART-2160	Art Lake - Part 3	32	14-Jan-20	22-Feb-20	254	06-Aug-20 A	15-Jun-21			Art Lake - Part 3
ART-2170	Art Lake - Part 6,7,12	16	17-Feb-20	05-Mar-20	252	08-Aug-20 A	15-Jun-21			Art Lake - Part 6,7,12
Underpass Tunn	el		]							
VE Panels, Roa										
TUN-3510	Install VE Panels (Frame & Panels)	0			191	28-Sep-20 A	24-May-21		Install VE	Panels (Frame & Panels)
TUN-3520	Tunnel - E&M 1st Fix (Bracket, Tracking & Cabling)	0			191	28-Sep-20 A	24-May-21		Tunnel - E	&M 1st Fix (Bracket, Tracking & Cabling)
TUN-3530	Sub-base for Underpass road L1	0			191	28-Sep-20 A	24-May-21		Sub-base	for Underpass road L1
TUN-3540	Tunnel - FS main, Socket & AFA equipment	0			181	19-Oct-20 A	31-May-21			Tunnel - FS main, Socket & AFA equipment
TUN-3550	Underpass L1 paving, funiture, marking, signage from East Portal	0			181	19-Oct-20 A	31-May-21			Underpass L1 paving, funiture, marking, signage from
TUN-3560		0			181	19-Oct-20 A				Tunnel - E&M 2nd Fix (Lighting & Equipment)
	Tunnel - E&M 2nd Fix (Lighting & Equipment)						31-May-21			Underpass ABWF works
TUN-3570	Underpass ABWF works	0			164	09-Nov-20 A	31-May-21			Tunnel - E&M Final Fix (Equipment connection & testin
TUN-3580	Tunnel - E&M Final Fix (Equipment connection & testing)	0			164	09-Nov-20 A	31-May-21			
TUN-3590	Tunnel - T&C & Statutory inspection	0			30	01-Jun-21	07-Jul-21			L
	, Noise Barrier, RWA12, Utilities & Road Works)									
Retaining Wall F										
L4-3450	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +170 (after system A sub-way)	0			175	19-Oct-20 A	24-May-21		L4 (RWA1	<ol> <li>Bay 17-20 construct wall &amp; backfill upto +170 (after sys</li> </ol>
L4-3460	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +175	0			85	25-May-21	02-Sep-21			
L4-3530	L4 (RWA12) - Bay 22 construct wall & backfill upto +170 (after twin 1950 pipe)	0			85	30-Jun-21	09-Oct-21			
L4-3630	L4 (RWA12) - Bay 21 construct wall & backfill upto +170 (after system A sub-way)	0			85	25-May-21	02-Sep-21			
Road Works - D	rainage									
L4-4250	L4 (Drainage) - Excavate & lay drain CH150 to CH200	0			303	18-May-20 A	24-May-21		L4 (Draina	ge) - Excavate & lay drain CH150 to CH200
L4-4260	L4 (Drainage) - Backfill for water main CH0 to CH200	0			97	02-Mar-21 A	29-Jun-21			
L4-4270	L4 (Drainage) - Excavate & lay drain CH200 to CH250	0			293	29-May-20 A	24-May-21		L4 (Draina	ge) - Excavate & lay drain CH200 to CH250
L4-4280	L4 (Drainage) - Excavate & lay drain CH250 to CH300	0			127	02-Mar-21 A	04-Aug-21			
L4-4290	L4 (Drainage) - Excavate & lay drain CH300 to CH350	0			293	29-May-20 A	24-May-21		L4 (Draina	ge) - Excavate & lay drain CH300 to CH350
L4-4300	L4 (Drainage) - Excavate & lay drain CH350 to CH400	0			127	02-Mar-21 A	04-Aug-21			
L4-4310	L4 (Drainage) - Backfill for water main CH200 to CH400	0			30	05-Aug-21	08-Sep-21			
Retaining Wall R	WA9 at Road L3									
RWA9 Bay 13 to	Bay 16									
RWA9-1220	RWA9 - F/W & rebat fixing to Bay 13, 14 & 15 Base Slab	0			63	03-Mar-21 A	20-May-21		RWA9 - F/W & reb	at fixing to Bay 13, 14 & 15 Base Slab
RWA9-1230	RWA9 - Concrete laying for Bay 13, 14 & 15 Base Slab	0			3	21-May-21	24-May-21		RWA9 - C	oncrete laying for Bay 13, 14 & 15 Base Slab
RWA9-1240	RWA9 - F/W & rebat fixing to Bay 16 wall	0			21	25-May-21	18-Jun-21			RWA9 - F/W & re
RWA9-1250	RWA9 - Concrete laying for Bay 16 wall	0			1	19-Jun-21	19-Jun-21			RWA9 - Concre
RWA9-1260	RWA9 - F/W & rebat fixing to Bay 13, 14 & 15 wall	0			21	21-Jun-21	15-Jul-21			
RWA9-1270	RWA9 - Concrete laying for Bay 13, 14 & 15 wall	0			4	16-Jul-21	20-Jul-21			
RWA9 Bay 17 to										
Pla	nned Bar (WP) 💠 🔶 Planned Milestone (WP)					3-mont	h Rolli	ng Programme		Date Rev
Act	ual Bar $\blacklozenge$ $\blacklozenge$ Milestone			Anders	on Rd Sub-p			ng i rogiannie	15-Ma	ay-21 C1-MPU202105
For	ecast Bar			15-May		orogramme				
				1	,					

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		ige 2 of 3		
	Jul	Qtr 3, 2021		Aug
				rug
eatment pl	ant - Construct the wall(W1,2,3,6,7,8,9,1		Backfill	ing (by course materia
2,4				
7,12				
e from Eas	t Portal			
testing)				
	Tunnel - T&C & Statuto	ry inspection		
ter system	A sub-way)			
	L4 (Drainage) - Backfill for water main C	2H0 to CH200		L4 (Drainage) - Exc
				L4 (Drainage) - Exc
	fixing to Bay 16 wall ying for Bay 16 wall			
		- F/W & rebat fixing to B		
Revis	on	Checked		Approved

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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

tivity ID	Activity Name	BL Project	BL Project	BL Project	At Completion	Start	Finish	n Qtr 2, 2021	
livity in	Notivity Namo	Duration	Start	Finish	Duration	otart	1 111011	Apr May Jun	
RWA9-1360	RWA9 - Concrete laying for Bay 18 & 20 Wall	0			52	15-Mar-21 A	18-May-21	21 RWA9 - Concrete laying for Bay 18 & 20 Wall	
RWA9 Bay 21 8	& Bay 22								
RWA9-1380	RWA9 - F/W & rebat fixing to Bay 21 & 22 Base Slab	0			70	02-Mar-21 A	27-May-21	21 RWA9- F/W & rebat fixing to Bay 21 & 22 Base	a Slab
RWA9-1390	RWA9 - Concrete laying for Bay 21 & 22 Base Slab	0			3	28-May-21	31-May-21	21 RWA9 - Concrete laying for Bay 21 & 22	2 Base Slab
RWA9-1400	RWA9 - F/W & rebat fixing to Bay 21 & 22 Wall	0			21	01-Jun-21	25-Jun-21	21	RW
RWA9-1410	RWA9 - Concrete laying for Bay 21 & 22 Wall	0			3	26-Jun-21	29-Jun-21	21	
Road Works L5,	L1 east (between Junction L3 & L5)								
Road L1 east p	art 2 (L5 toward PC system B)								
RL1b-1040	Road L1 east 2 - ducting for Street Lighting	0			417	19-Dec-19 A	20-May-21	21 Road L1 east 2 - ducting for Street Lighting	
RL1b-1050	Road L1 east 2 - Road Pavement	0			333	17-Apr-20 A	31-May-21	21 Road L1 east 2 - Road Pavement	
RL1b-1060	Road L1 east 2 - Landscape funiture	0			310	13-Jun-20 A	29-Jun-21	21	
Road L1 east p	art 3 (Junction L3 toward L5)								
RL1c-1060	Road L1 east 2 - Landscape funiture	0			292	13-Jun-20 A	07-Jun-21	21 Road L1 east 2 - Landsc	ape funiture
Road Works PT	T, L1 west (between Junction L3 & PTT)								
Road L1 west p	part 1 (Box culvert BC1)								
RL1c-1110	Road L1 west 1 - UU installation	0			113	18-Jan-21 A	07-Jun-21	21 Road L1 west 1 - UU inst	tallation
RL1c-1120	Road L1 west 1 - ducting for Street Lighting	0			105	27-Jan-21 A	07-Jun-21	21 Road L1 west 1 - ducting	j for Street Ligh
	Road L1 west 1 - Road Pavement	0			105	27-Jan-21 A	07-Jun-21	21 Road L1 west 1 - Road P	Pavement
RL1c-1130									

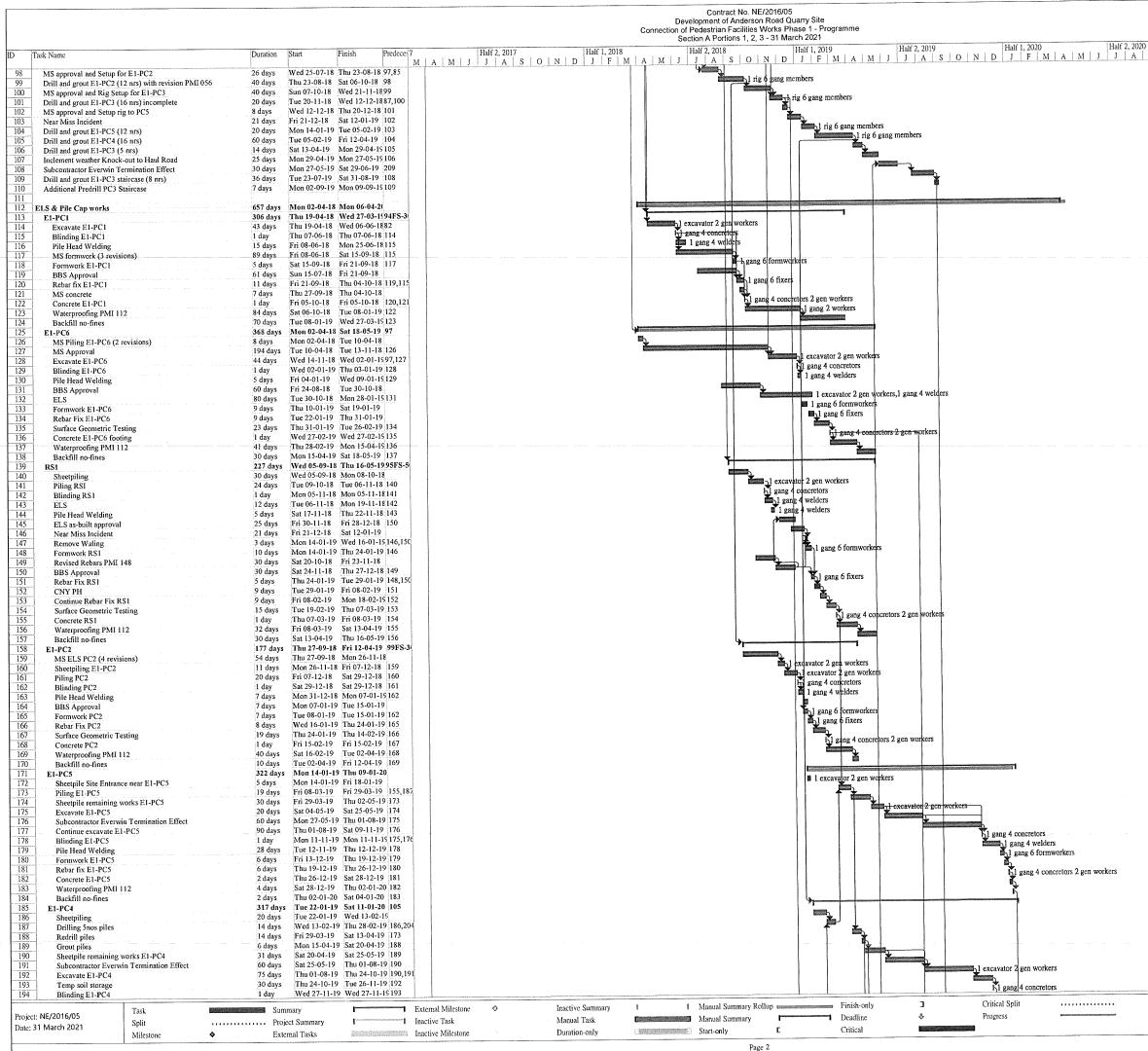
Planned Bar (WP) 🔶 🔷 Planned Milestone (WP)	2 month Delling Drogramme	Date	R
Actual Bar $\blacklozenge$ $\blacklozenge$ Milestone	3-month Rolling Programme	15-May-21	C1-MPU202105
Forecast Bar	Anderson Rd Sub-programme		
	15-May-21		

	Pa	ge 3 of 3	
		Qtr 3, 2021	
	Jul		Aug
RWA9 -	F/W & rebat fixing to Bay 21 & 22 Wall		
	RWA9 - Concrete laying for Bay 21 & 22	2 Wall	
	Road L1 east 2 - Landscape funiture		
ighting			
Revisio	on	Checked	Approved



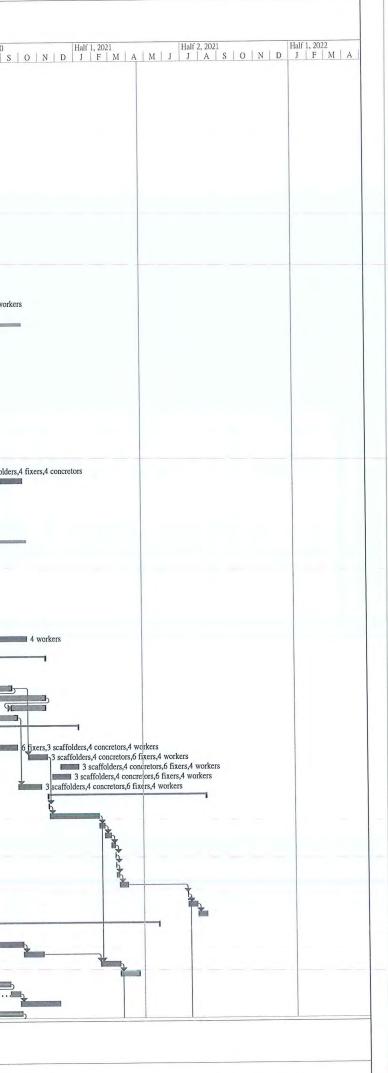
### Contract 2 (NE/2016/05)

Contract No. NEX/2016/05 Development of Andrad Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 31 March 2021								
k Name	Duration Start Finish Predeces	Half 1, 2020 Half 1, 2021 Half 2, 2020 Half 1, 2021 Half 2, 2020 Half 1, 2021 Half 1, 2022						
ction A Portions 1, 2, 3 vised Contract Period	1203 days? Sat 01-04-17 Tue 08-12-20							
Contract Commencement Period (Addendum No.2)	978 days Sat 01-04-17 Tue 31-03-20							
Public Holidays since 1 April 2017 Granted EOT from CE	173 days Tue 31-03-20 Sat 10-10-20 3 199 days? 4	h Lit						
CE124 - 5days exam	5 days 4							
CE 051 - 7days exam CE113 - 5days exam	6 days 6 5 days 7							
CE 058 - 1days inclement weather March 2018	1 day 8							
CE 078 - 4days inclement weather May 2018 CE102 - 11days inclement weather June 2018	4 days 9 11 days 10							
CE102 - Truays inclement weather July 2018	7 days 11							
CE149 & CE151 20days exam Jan & Feb 2019	20 days 12 1 day 13							
PMI-159 - 1day exam CE171 10 days exam Mar & April 2019	14 days 14							
CE174 3 days inclement weather Feb 2019	3 days 15 3.5 days 16							
3.5days inclement weather Mar 2019 CE193 2.5 day inclement weather April 2019	2.5 days 17							
1 day school graduation May 2019	1 day 18 1 day 19							
1 day inclement weather May 2019 1 day inclement weather June 2019	1 day 19 1 day 20							
4 day inclement weather July 2019	4 days 21							
14 days TownGas at Portion 3 12 days exam June 2019	14 days 22 12 days 23							
11 days exam Jan 2020	11 days 24							
10 days exam Feb 2020 2 days exam Mar 2020	10 days         25           2 days         26							
6 days exam April 2020	6 days 27							
COVID-19 Event Jan 31 to Mar 18, 2020 5 days exam May 2020	52 days         28           5 days         Thu 03-12-20         Tue 08-12-20         29	ŭ						
missions 1S socket H pile for RS1 and PC1 (3 revisions)	788 days         Thu 04-05-17         Thu 03-10-19           189 days         Thu 04-05-17         Fri 01-12-17							
ubmissions	139 days Tue 09-05-17 Wed 11-10-17							
MS for Weld test MS Tree felling	30 days         Tue 09-05-17         Sat 10-06-17           30 days         Wed 31-05-17         Mon 03-07-17							
MS Tree protection	30 days Thu 15-06-17 Tue 18-07-17							
MS site entrance MS hoarding	30 days         Fri 07-07-17         Wed 09-08-17           30 days         Fri 11-08-17         Wed 13-09-17							
MS GI	30 days Thu 07-09-17 Tue 10-10-17							
pproval of MS ile cap submissions	161 days         Tue 10-10-17         Mon 09-04-1834           211 days         Mon 09-04-18         Fri 30-11-18         41							
MS pilecap	30 days Mon 09-04-18 Fri 11-05-18							
MS pile load test PC1 (3 revisions) Approval of Load Test	23 days         Sat 21-04-18         Wed 16-05-18           23 days         Thu 17-05-18         Mon 11-06-1844							
MS dismantle load test	30 days Tue 12-06-18 Sat 14-07-18 45							
MS ELS (2 revisions)	182 days         Fri 27-04-18         Fri 16-11-18           189 days         Thu 03-05-18         Fri 30-11-18							
MS Piling PC3 to PC5 (3 revisions) Approval of MS	90 days Fri 30-11-18 Mon 11-03-1942							
Superstructure submissions	256 days Wed 15-08-18 Tue 28-05-19 141 days Wed 15-08-18 Sat 19-01-19							
MS Pier formwork (4 revisions) MS Deck	45 days Sat 19-01-19 Mon 11-03-1951							
Approval of MS Civil works liaison with CLP, PCCW, HKT	70 days         Mon 11-03-19         Tue 28-05-19         52           120 days         Wed 22-05-19         Thu 03-10-19							
ction A, Portion 1 - Escalator (E1) Setting out of site boundary	979 days         Fri 31-03-17         Tue 31-03-20           4 days         Wed 05-04-17         Sat 08-04-17							
Setting out of predrill coordinates / Site clearance	14 days Mon 10-04-17 Tue 25-04-17 57							
nspection pits JU Detection	3 days         Sat 22-04-17         Wed 26-04-1758           3 days         Fri 14-04-17         Mon 17-04-1759							
Contractor's office	2 days Tue 25-04-17 Wed 26-04-17							
drilling Works Predrilling PD/E1/01	95 days         Sat 29-04-17         Sun 13-08-17           0 days         Sat 29-04-17         Fri 05-05-17         58	05-05						
redrill PD/E1/03	4 days Fri 05-05-17 Wed 10-05-1763	$\mathbb{E}_{1}$ ing 3 gang members						
redrill PD/E1/04 redrill PD/E1/10	4 days Wed 10-05-17 Mon 15-05-1764 4 days Mon 15-05-17 Fri 19-05-17 65	If 1 rig 3 gang members If 1 rig 3 gang members						
redrill PD/E1/09	4 days Sat 20-05-17 Wed 24-05-1766	I rig 3 gang members						
Predrill PD/E1/07 Predrill PD/E1/08	4 days Thu 25-05-17 Mon 29-05-1767 5 days Mon 29-05-17 Fri 02-06-17 68	馬1 rig 3 gang members 第1 rig 3 gang members						
Predrill PD/E1/06	6 days Sat 03-06-17 Fri 09-06-17 69	and the second						
redrill PD/E1/05 redrill PD/E1/02	4 days Fri 09-06-17 Wed 14-06-17 70 5 days Wed 14-06-17 Tue 20-06-17 71	L rig 3 gang members L rig 3 gang members						
Additional Predrilling at PD/E1/06	12 days Tue 20-06-17 Mon 03-07-1772	and the second s						
Additional Predrilling for PMI003 Construction Works	7 days Tue 04-07-17 Tue 11-07-17 73 309 days Thu 04-05-17 Sat 14-04-18	1 1 rig 3-gang-members						
Ioarding	60 days Thu 04-05-17 Mon 10-07-17							
Temp Site Entrance	7 days Fri 04-08-17 Fri 11-08-17 76 218 days Fri 04-08-17 Thu 05-04-18							
Demolish manhole PMI 015	20 days Mon 21-08-17 Tue 12-09-17							
rawf wall heetpile Site Entrance near E1-PC5	9 days Mon 18-09-17 Wed 27-09-17 15 days Fri 29-09-17 Mon 16-10-17							
heetpiling E1-PC1	5 days Mon 16-10-17 Sat 21-10-17							
ıl Road 15 Haul Road (6 revisions)	457 days         Mon 01-10-18         Tue 25-02-20           67 days         Mon 08-10-18         Fri 21-12-18							
Iaul Road approval	29 days Mon 01-10-18 Fri 02-11-18 84							
Haul Road to PC1 & PC2 Haul Road to PC3	10 days         Fri 02-11-18         Wed 14-11-1885           3 days         Wed 14-11-18         Sat 17-11-18         86							
Approval for Haul Road to PC5	30 days Sat 17-11-18 Thu 20-12-18 87							
Haul Road to PC5 Haul Road to PC4	4 days         Fri 21-12-18         Tue 25-12-18         88           15 days         Fri 21-12-18         Mon 07-01-19         88							
Haul Road to PC1	10 days Fri 14-02-20 Tue 25-02-20							
rilling Works Boring Machine deployment and set up(2nrs)	613 days? Sat 28-10-17 Mon 16-09-1574 14 days Sat 28-10-17 Tue 14-11-17 74							
Drill and grout H-Piles E1-PC1 (12nrs)	67 days Tue 14-11-17 Sat 27-01-18 93	1 rig 6 gang nembers						
Drill and grout H-Piles RS1 (22nrs) MS Approval and Setup for E1-PC6	114 days         Fri 17-11-17         Sat 24-03-18         94           40 days         Tue 27-02-18         Thu 12-04-18         95	G gang members						
Drill and grout E1-PC6 with revision PMI 057	92 days Thu 12-04-18 Tue 24-07-18 95,96	1 rig 4 gang members						
E/2016/05		External Milestone $\diamond$ Inactive Summary I Manual Summary Rollup Finish-only J Critical Split						
/2016/05	Project Summary	Inactive Task Manual Task Manual Summary Deadline & Progress						

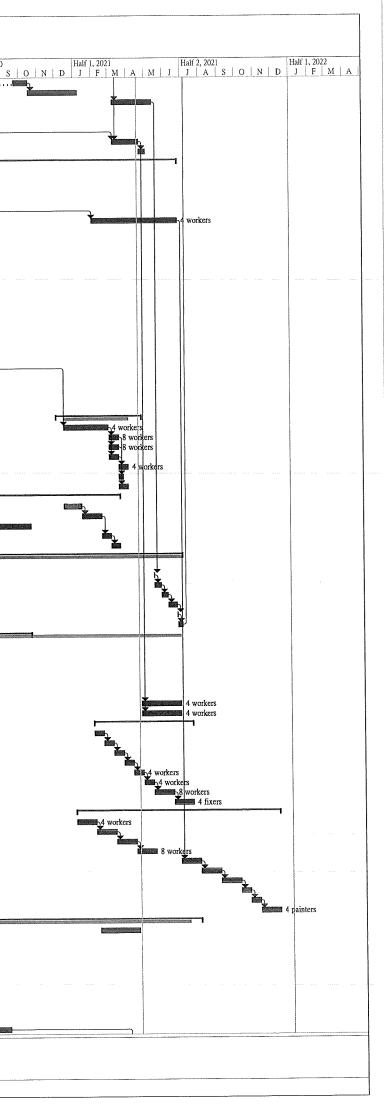


0   N   I	Half 1, 20	021   M	A   M	1	Half 2	2021 A S	<u>s   0</u>	N	D	Hal J	f 1, 20   F	22   M	A
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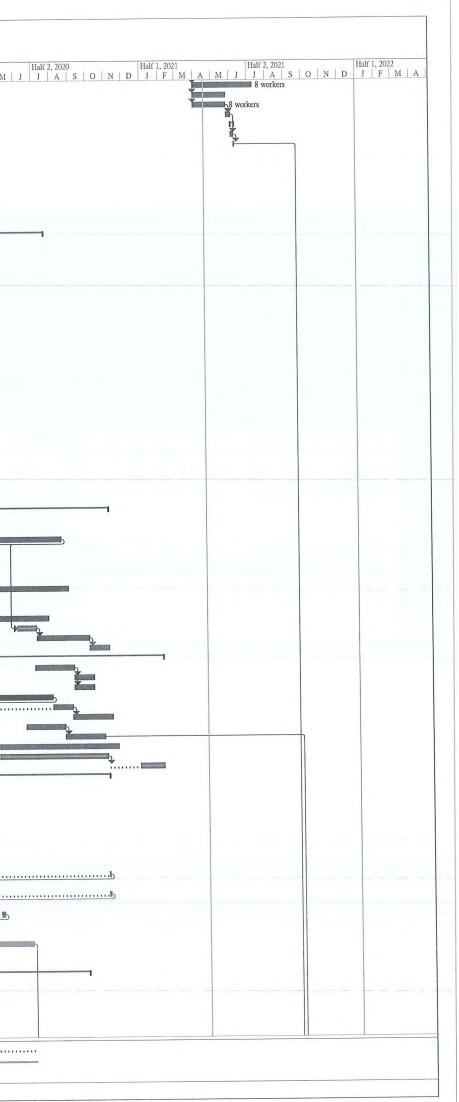
					Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 31 March 2021
Tas	Name	Duration	Start	Finish Predece	Half 2, 2017         Half 1, 2018         Half 2, 2018         Half 1, 2019         Half 2, 2019         Half 1, 2020           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   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   J   F   M   A   M   J   A   S   O   N   D   A   S
_	Pile Head Welding	13 days		9 Thu 12-12-19 194	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 I M A M J J A S O N D J I M A M J J A S O N D J I gang 4 welders
	BBS Approval	94 days	Sat 20-04-19	9 Sat 03-08-19 189	Li gang 6 formworkers
-	Formwork E1-PC4 Rebar Fix E1-PC4	17 days 8 days		9 Tue 17-12-19 194 9 Wed 25-12-19 197	and a second sec
1	Concrete E1-PC4	1 day	Thu 26-12-1	9 Thu 26-12-19 198	1 gang 4 concretors 2 gen worke
	Waterproofing PMI 112	4 days		Tue 31-12-19 199	
-	Backfill no-fines E1-PC3 & RC staircase	10 days		9 Sat 11-01-20 200 8 Tue 14-04-20 101	
1	MS ELS (2 revisions)	17 days	Fri 28-12-18	8 Wed 16-01-19	
	Drilling 5nos piles	20 days		9 Wed 06-02-19	
-	BBS Approval Continue drilling 11nos piles	30 days 30 days		19 Fri 12-04-19 19 Fri 17-05-19 188	
1	Demobilize Everwin drilling rig	7 days	Sat 18-05-1	9 Sat 25-05-19 206	
1	Subcontractor Everwin Termination Effect	31 days		9 Sat 29-06-19 207	
-	Mobilize Ping On drilling rig to PC3 staircase Sheetpile PC3 & RC Staircase	43 days 10 days		9 Fri 16-08-19 207,20 9 Fri 13-09-19 109,20	
	Excavate PC3 & Staircase	10 days	Fri 13-09-19	Wed 25-09-19206,21	1 excavator 2 gen workers
	Removal of backfill material	45 days		19 Thu 14-11-19 211	
	ELS Blinding PC3 & staircase	32 days 1 day		I9         Fri 20-12-19         212           9         Sat 21-12-19         213	51 gang 4 concretors
1	Pile Head Welding	12 days	Sat 21-12-1	9 Fri 03-01-20 214	l gang 4 welders
	Formwork PC3 & Staircase pilecaps	12 days		Fri 17-01-20 215	1 gang 6 fixers
-	Rebar Fix PC3 & staircase pilecaps COVID-19 Event Jan 31 to Mar 18, 2020	14 days 50 days		0 Sat 01-02-20 216 0 Sat 28-03-20 217	
1	Covrid-19 Event Jan 31 to Mar 18, 2020 Concrete PC3 & Staircase pilecaps	1 day	Sat 28-03-2	0 Mon 30-03-20218	51 gang 4 cond
1	Backfill no-fines	14 days	Mon 30-03-	20 Tue 14-04-20 219	
	perstructure Submission of Temp Work design and MS for Piers	495 days 14 days		8 Sun 07-06-20 8 Mon 17-12-18	
	Submission of Temp Work design and MS for Piers Approval of Temp Work design and MS for Piers	30 days	Mon 17-12-	18 Sat 19-01-19 222	
1	Submission of Temp Work design and MS for Piers(Rev 2,3)	40 days	Sat 19-01-1	9 Tue 05-03-19 223	
	Approval of Temp Work design and MS for Piers (Rev 3) Submission of Temp Work design and MS for Piers (Rev 4)	30 days 20 days		19 Mon 08-04-19224 19 Tue 30-04-19225	
	Submission of Temp Work design and MS for Piers (Rev 4) Approval of Temp Work design and MS for Piers (Rev 4)	35 days		19 Sat 08-06-19 225	
	Subcontractor Everwin Termination Effect	60 days	Sat 08-06-1	9 Wed 14-08-19227	2) seaffolders,4 fixers,4 concrete
	Construction of Cap (E1-PC6) with drill and grout			-19         Thu 26-12-19         228           9         Sat 09-05-20         229	
	Construction of E1-PC6 RC Abutment walls PC6 Backfill & remove waling	120 days 80 days		9 Sat 09-05-20 229 20 Fri 29-05-20 229	
	Construction of Ramp (E1-RS1)	141 days	Thu 01-08-	19 Mon 06-01-20136	3 scaffolders,4 fixers,4 concretors
	Construction of Pier P1	58 days		-19 Fri 18-10-19 228	≚ 3 scaffolders,4 fixers,4 concretors
	Construction of Pier P2 Construction of Pier P5	9 days 13 days		9 Mon 28-10-19233 0 Sat 18-01-20 184	3 scaffolders,4 fixers 4 con
	Construction of Pier P4	162 days	Sat 11-01-2	0 Fri 10-07-20 201	
1	Construction of Pier/P3 Staircase			0 Wed 30-09-20	D.
	Construction of Pier Head P1 Construction of Pier Head P2	8 days 8 days		0 Sat 21-03-20 0 Tue 31-03-20 238	
	Construction of Pier Head P2 Construction of Pier Head P5	8 days	Tue 31-03-	20 Wed 08-04-20239	
	Construction of Pier Head P3	30 days		20 Tue 12-05-20 240	
	Construction of Pier Head P4 Instruction of Bearings and Movement Joints			-20 Sat 18-07-20 241 18 Wed 20-05-20	
	nstruction of Bearings and Movement Joints Proposal of Bridge Bearing Specialist			8 Thu 08-11-18	
	Approval of Bridge Bearing Specialist	30 days	Thu 08-11-	18 Wed 12-12-18244	
	Design submission of Bridge Bearing	60 days		18 Mon 18-02-19245 -19 Sat 23-03-19 246	
	Approval of Design submission of Bridge Bearing Material Submission for Bridge Bearing	60 days	Mon 25-03	-19 Thu 30-05-19 247	
	Approval of Material Submission for Bridge Bearing	60 days	Thu 30-05-	19 Tue 06-08-19 248	
	Testing and result submission of Bridge Bearings	90 days		19Thu 14-11-1924919Sat 18-04-20250	
	Procurement to delivery of Bridge Bearing Installation of Bridge Bearings for PC6	7 days		20 Sat 16-05-20 230	
	Installation of Bridge Bearings for PC3	130 days	Tue 12-05-	20 Mon 05-10-20241	
	TTA for Detouring Pedestrians aat Memorial Park			-20 Thu 30-01-20	
Si	te formation for scaffolding RS1-PC1			-20 Thu 05-11-20	
1	P5 to P6	88 days	Thu 23-04-	20 Thu 30-07-20 256	
	P4 to P5			20 Thu 10-09-20 257	- Automation - Aut
-	P3 to P4 P2 to P3			-20 Thu 05-11-20 258 20 Thu 05-11-20 259	
	P1 to P2	40 days	Thu 06-08-	-20 Sat 19-09-20 258	
C	onstruction of esclator trough with cast-in items			-20 Wed 30-12-2(	
-	Deck RS1 to P1 Deck P5 to P6	63 days 90 days		-20 Thu 02-07-20 256 20 Fri 18-09-20 263	9
	Deck P5 to P5	30 days	Tue 06-10-	-20 Sat 07-11-20 258	
	Deck P3 to P4	28 days		-20 Wed 30-12-20	
	Deck P2 to P3 Deck P1 to P2	28 days 35 days		-20 Wed 16-12-20 20 Wed 28-10-20261	
I	scalators Installation			1-20 Tue 03-08-21	
1	Plumbing & measuring of escalator pit	2 days	Mon 09-11	-20 Tue 10-11-20 265	
-	Delivery, hoisting and positioning of escalator truss	75 days 9 days		1-20 Tue 02-02-21 270 2-21 Fri 12-02-21 271	
1	Drive/ step chain, step and guiderail tracks installation Balustrade, handrail, skirting and deflector device works	9 days 9 days		21 Tue 23-02-21 272	
1	Electrical works and escalator pits installation	6 days	Tue 23-02	-21 Mon 01-03-21273	
	Permenant power energization for escalator	1 day 1 day		-21 Tue 02-03-21 274 3-21 Wed 03-03-21275	
1	Inspection(low) speed running testing of escalator operation Final tuning and adjusting of escalator equipment / devices (driv			-21 Mon 08-03-21275	
	Normal (fast) speed running and safety testing of escalator oper-	atic 13 days	Mon 08-03	3-21 Tue 23-03-21 277	
	Submission of Form LE5 to EMSD	1 day	Thu 01-07	-21 Fri 02-07-21 347,2	
-	Anticipate EMSD inspection Anticipate Use Permit issue date	14 days 14 days		21 Sat 17-07-21 279 7-21 Tue 03-08-21 280	
P	arapet and Roofing	816 day	s Tue 13-11	-18 Fri 14-05-21	
	Proposal of off-site fabrication of steelworks			-18 Sat 01-06-19	
1	Approval of off site fabrication of steelworks Fabrication of steelworks off-site	240 days 30 days		1-20 Fri 25-09-20 283 20 Thu 29-10-20 284	
1	Fabrication of steelworks off-site Erection of steelworks (RS1 to PC1, PC5 to PC6)	30 days		2-21 Mon 08-03-21285,	
1	Erection of steelworks (PC1 to PC5)	30 days	Mon 08-0.	3-21 Sat 10-04-21 286	
1	Material submission of fall arrest system	30 days 30 days		20 Wed 02-09-20 -20 Sat 19-09-20 288	9 <u> </u>
+	Approval of material for fall arrest system Procurement of fall arrest system	60 days		-20 Sat 19-09-20 288 -20 Wed 25-11-20 289	
Ē	Material submission of corrugated steel roof	60 days		20 Tue 22-09-20	
Ē	Task	Sun	nmary		External Milestone 🗇 Inactive Summary I I Manual Summary Rollup Finish-only 🕽 Critical Split
	IE/2016/05				Progress
	March 2021 Split	Pro Pro	ject Summarv	1	Inactive Task Manual Task Manual Summary Deadline Togets



						Connect	Contract No. Development of Ander ion of Pedestrian Facilitie Section A Portions 1,	son Road Quarry Site es Works Phase 1 - P 2, 3 - 31 March 2021	rogramme			
n	Task Name	Duration	Start	Finish Predece	7   Half 2, 2017 M   A   M   J   J   A   S   O	Half 1, 2018 N $\mid$ D $\mid$ F $\mid$ M $\mid$ A $\mid$ M	Half 2, 2018	Half 1, 20	19   M   A   M   J	Half 2, 2019 J A S	Half 1, 202 O N D J F	20 Half 2, 202   M   A   M   J   J   A
92	Approval of material for corrugated steel roof	90 days		Sat 17-10-20 291		<u></u>	Andreastan in a sin a second second				<b>A</b>	
93 94	Procurement of corrugated steel roof Erection of roof system, gutter and fall arrest system	75 days 60 days	Mon 08-03-21	Sat 09-01-21 292 Fri 14-05-21 286								10072
95 96	Material submission of Plexiglass Approval of material Plexiglass	60 days 30 days	Thu 02-01-20	Mon 09-03-20 Wed 13-05-20295								
97	Procurement to delivery of Plexiglass	30 days	Thu 14-05-20	Tue 16-06-20 296								
98 99	Construction of Plexiglass parapet Decking construction connecting to existing footpath	40 days 10 days		Thu 22-04-21 286,297 Mon 03-05-21298								
0	Drainage Works Construction	854 days	Tue 13-11-18	Fri 25-06-21				j				
)1 )2	Application of XP for carriageway for Hiu Ming Street TTA Application for drainage works at Hiu Ming Street	90 days 80 days	Tue 13-11-18 Thu 21-02-19	Thu 21-02-19 Wed 22-05-19301					<b>k</b>			
3	Road Works Advice	300 days	Wed 22-05-19	Wed 22-04-20302					×.			<b>}</b>
4 5	Implementation of TTA Procurement to delivery of material for Drainage	30 days 20 days		Mon 25-05-20303 Wed 17-06-20304								
6	Construction of Drainage PMI 016			Fri 25-06-21 305								and '
7	E & M Lighting Works Proposal of Specialist for E&M Works	428 days 24 days	Tue 13-11-18 Tue 13-11-18									
9	Approval of Specialist for E&M Works	24 days 24 days		Sat 05-01-19 308								
0	Material Submission of cable tray	30 days 30 days		Thu 07-02-19 309 Wed 13-03-19310								
2	Approval of material cable tray Material submission of cables, conduits, fittings	24 days		Tue 09-04-19 311					ting the second se			
3	Approval of material for cables conduits fittings	24 days		Mon 06-05-19312								
5	Material submission of lightings Approval of material submission of Lightings	30 days 30 days		Sat 08-06-19 313 Fri 12-07-19 314						<b>.</b>		
5	Material submission of Pillar Box c/w accessories	26 days	Fri 12-07-19	Sat 10-08-19 315								
7 8	Approval of material submission of Pillar Box c/w accessories Material submission of MCB distribution board	27 days 30 days		Sat 10-08-19 315 Wed 13-03-19310								
9	Approval of MCB distribution board	30 days	Wed 13-03-19	Tue 16-04-19 318								
)	Material submission of communication cables Approval of communication cables	30 days 30 days		Mon 20-05-19319 Sat 22-06-19 320								
2	Application of Power supply	60 days	Sat 22-06-19	Wed 28-08-19321					1			
	Application of telemetry (Chubb) Application of E1 XP for telemetry by AECOM		Fri 15-11-19 Tue 13-11-18						J.			
5	Completion of Telemetry Civil & E&M Works	60 days	Wed 15-05-19	Sat 20-07-19 324								
5	Construction and Installation works for pillar box Positioning and construction of Pillar Box		Tue 01-12-20	Sat 24-04-21 Sat 27-02-21 321								
	Trenching works and laying of ducts and power cables	15 days	Mon 01-03-21	Wed 17-03-21327								
	Trenching works and laying of telecommunication cables	15 days 15 days		Wed 17-03-21327 Wed 17-03-21327								
	Installation of E&M Component inside Pillar Box Instalation and Connection of Telemetry system	15 days 15 days	Wed 17-03-21	Fri 02-04-21 329								
	Installation of Electricity Meter	7 days	Wed 17-03-21	Thu 25-03-21 328								
	T&C of E&M works inside pillar box Sump pit and pumps	15 days 225.75 da	Wed 17-03-21 ay:Fri 10-07-20	Fri 02-04-21 330 Fri 19-03-21								countrie de Nation
	Construction of Sump pit	28 days	Mon 14-12-20	Wed 13-01-21								
	Trenches and ductings for sump pit to existing manhole Procurement to delivery of Sump Pump, Piping and Associated I	30 days Equ90 days	Thu 14-01-21 Fri 10-07-20	Tue 16-02-21 335 Mon 19-10-20								
	Installation of Sump Pump (by Wing Luen)	14 days	Tue 16-02-21	Thu 04-03-21 336								
_	T&C of Sump Pump System Installation of Lighting for escalator	14 days 344.88 da	Thu 04-03-21 ay:Thu 11-06-20	Fri 19-03-21 338 Thu 01-07-21								
1	Procurement & Delivery of Lighting and accessories	60 days	Thu 11-06-20	Mon 17-08-20								
2	Handover of escalator cover walkway to E&M Installation Conduit and cable containment	1 day 10 days		Sat 15-05-21 294 Wed 26-05-21342								
4	Cable and wiring	10 days	Thu 27-05-21	Mon 07-06-21343								
5 6	Installation of Light fitting Power connection to Lighting	14 days 1 day		Tue 22-06-21 344 Wed 23-06-21345								
	T&C of Lighting	7 days	Thu 24-06-21	Thu 01-07-21 346								
	Landscape Works	1	Wed 03-10-18					workers				- <u>т</u>
9	Remove felled trees PMI 018 Tree Pruning PMI 042	3 days 3 days	Wed 03-10-18 Tue 03-03-20	Thu 05-10-18 Thu 05-03-20 349			E.					<b>T</b> 4 workers
	Individual TRA Form 2	150 days	Wed 03-10-18	Tue 19-03-19								
2	Submission of proposal of Landscape Specialist Nursery Inspection	30 days 10 days		Mon 05-11-18 Fri 16-11-18 352								
F	Approval of proposal of Landscape specialist	180 days	Fri 16-11-18	Thu 06-06-19 353				×				
5	Construction of hard and soft landscape works Rectification of Defects	60 days 60 days		Mon 28-06-21298 Mon 28-06-21298								
7	Road and Pavings / Traffic Signs	150 days	Mon 01-02-21	1 Sat 17-07-21								
3	Material submission of Road Pavers Approval of material submission of Road Pavers	15 days 15 days		Wed 17-02-21 Fri 05-03-21 358								
	Procurement to delivery of Road Pavers	15 days	Sat 06-03-21	Tue 23-03-21 359								
	Ordering to delivery of concrete kerbs from CSD Construction of kerbs	15 days 15 days		Thu 08-04-21 360 Sat 24-04-21 361								
		15 days 15 days	Mon 26-04-21	Wed 12-05-21362								
2	Construction of footpath			Tue 15-06-21 363								
	Construction of Paved Area	30 days		Eat 17 07 31 374								
		30 days 30 days		Sat 17-07-21 364 Fri 10-12-21								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles	30 days 30 days 307.25 d 30 days	Tue 15-06-21 ay: Fri 01-01-21 Fri 01-01-21	Fri 10-12-21 Wed 03-02-21								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles	30 days 30 days 307.25 d 30 days 30 days	Tue 15-06-21 ay: Fri 01-01-21 Fri 01-01-21 Wed 03-02-21	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367								
2 5 5 7 7 7 7 7 7 7 7 7 7 7 7	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days	Tue 15-06-21 ay: Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367 Mon 12-04-21368 Sat 15-05-21 369								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works Material submission of Paint	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days	Tue 15-06-21 ay. Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21	Fri 10-12-21           Wed 03-02-21           Tue 09-03-21         367           Mon 12-04-21         368           Sat 15-05-21         369           Thu 29-07-21         306								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tiling works Material submission of Paint Comment of material submission of paint 2nd submission of paints	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days	Tue 15-06-21 ay: Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21	Fri 10-12-21           Wed 03-02-21           Tue 09-03-21 367           Mon 12-04-21 368           Sat 15-05-21 369           Thu 29-07-21 306           Wed 01-09-21 371           Tue 05-10-21 372								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tiling works Material submission of Paint Comment of material submission of paint 2nd submission of paints	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days 30 days 30 days	Tue 15-06-21 ay Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Tue 05-10-21	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367 Mon 12-04-21 368 Sat 15-05-21 369 Thu 29-07-21 366 Wed 01-09-21 371 Tue 05-10-21 372 Thu 21-10-21 373								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tiling works Material submission of Paint Comment of material submission of paint 2nd submission of paints	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days	Tue 15-06-21 ay Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Tue 05-10-21 Thu 21-10-21	Fri 10-12-21           Wed 03-02-21           Tue 09-03-21 367           Mon 12-04-21 368           Sat 15-05-21 369           Thu 29-07-21 306           Wed 01-09-21 371           Tue 05-10-21 372								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works Material submission of Paint Comment of material submission of paint Approval of material submission of paints Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint Construction of Sau Mau Ping Memorial Park	30 days 30 days 307,25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days 30 days 15 days 30 days 460,38 d	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Mon 12-04-21 St 26-06-21 Thu 29-07-21 Wed 01-09-21 Thu 29-07-21 Wed 01-09-21 Thu 21-10-21 Mon 08-11-21 ay, Mon 02-03-20	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367 Mon 12-04-21368 Sat 15-05-21 369 Thu 29-07-21 306 Wed 01-09-21371 Tue 05-10-21 372 Thu 21-10-21 373 Sat 06-11-21 374 Sat 06-11-21 375 0 Thu 29-07-21								
2 5 5 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tiling works Material submission of Paint Comment of material submission of paint 2nd submission of paints Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint Construction of Sau Mau Ping Memorial Park Slope improvement work (11NE-D/CR222)	30 days 30 days 307,25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days 15 days 30 days	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Tue 05-10-21 Thu 21-10-21 Mon 08-11-21 ay, Mon 02-03-20 Tue 09-02-21	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367 Mon 12-04-21368 Sat 15-05-21 369 Thu 29-07-21 306 Wed 01-09-21371 Tue 05-10-21 372 Thu 21-10-21 373 Sat 06-11-21 374 Sat 06-11-21 375 0 Thu 29-07-21								
	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tiling works Material submission of Paint Comment of material submission of paint 2nd submission of paints Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint <b>Construction of Sau Mau Ping Memorial Park</b> Slope improvement work (11NE-D/CR220) Material submission of Pavillion Approval of material submission of Pavillion	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 30 days 30 days 15 days 15 days 16 days 30 da	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Thu 29-07-21 Wed 01-09-21 Thu 21-10-21 Mon 08-11-21 Mon 08-11-21 Thu 09-02-21 Thu 09-02-21 Thu 07-05-20 Wed 10-06-20	Fri 10-12-21 Wed 03-02-21 Tue 09-03-21 367 Mon 12-04-21 368 I Sat 15-05-21 369 Thu 29-07-21 306 Wed 01-09-21 371 Tue 05-10-21 372 Thu 21-10-21 373 Sat 06-11-21 374 I Fri 10-12-21 375 0 Thu 29-07-21 Fri 16-04-21 Wed 10-06-2C 385 D Tue 14-07-20 379								
1 2 3 4 5 5 5 5 7 7 8 9 7 7 8 9 7 7 8 9 9 0 1	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works Material submission of Paint Comment of material submission of paint 2nd submission of paints Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint Construction of Sau Mau Ping Memorial Park Slope improvement work (11NE-D/CR222) Material submission of Pavillion Approval of material submission of Pavillion	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 30 days 15 days 15 days 15 days 30 days	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Thu 29-07-21 Wed 01-09-21 Thu 21-10-21 Mon 08-11-21 Mon 08-11-21 Thu 09-02-21 Thu 07-05-20 Wed 10-06-22 Tue 14-07-20	Fri 10-12-21           Wed 03-02-21           Tue 09-03-21           Mon 12-04-21368           Sat 15-05-21           Soft Med 01-09-21371           Tue 01-02-1371           Tue 21-10-21           Tub 21-10-21           Wed 01-09-21-374           Fri 10-21           Thu 21-10-21           Sat 06-11-21           374           Fri 16-04-21           Fri 16-04-21           Wed 10-06-2C 385           Tue 15-08-20           Sat 15-08-20								
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$   \begin{array}{c}     1 \\     2 \\     3 \\     4 \\     5 \\     5 \\     6 \\     7 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     8 \\     8 \\     9 \\     0 \\     1 \\     2 \\     3 \\     4 \\     5 \\     6 \\     7 \\     7 \\     8 \\     8 \\     7 \\     7 \\     8 \\     7 \\     7 \\     8 \\     7 \\     7 \\     8 \\     7 \\     7 \\     7 \\     8 \\     7 \\     7 \\     7 \\     8 \\     7 \\     7 \\     7 \\     8 \\     7 \\     7 \\     7 \\     7 \\     7 \\     8 \\     7 \\     $	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works Material submission of Paint Comment of material submission of paint Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint Construction of Sau Mau Ping Memorial Park Slope improvement work (11NE-D/CR222) Material submission of Pavillion Approval of material submission of Pavillion Procurement to delivery of Pavillion Approval of material submission of Pavillion Procurement to delivery of Pavillion Material submission of Bench Approval to material submission of Ple Light Approval of material submission of Pole Light Approval of material submission of Pole Light Net/2016/05 Task	30 days 30 days 307.25 d 30 days 30 days 30 days 30 days 30 days 15 days 30 days 15 days 30 days 15 days 30 da	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Tue 09-03-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Tue 05-10-21 Mon 08-11-21 ay, Mon 02-03-21 Tue 09-02-21 Tue 09-02-21 Tue 09-02-20 Wed 10-06-20 Wed 10-06-20 Tue 14-07-20 Mon 02-03-20 Tue 19-05-20 Sat 30-05-20 Sat 30-05-20	Fri 10-12-21 Wed 03-02-21 4 Tue 09-03-21 367 Mon 12-04-21 368 1 Sat 15-05-21 369 Thu 29-07-21 306 Wed 01-09-21 371 1 Tue 05-10-21 372 Thu 21-10-21 373 Sat 06-11-21 374 1 Fri 10-12-21 375 0 Thu 29-07-21 Fri 16-04-21 Wed 10-06-2C 385 0 Tue 14-07-20 380 Wed 10-06-2C 385 0 Tue 14-07-20 382 Sat 15-08-20 383 0 Thu 07-05-20 383 0 Thu 07-05-20 385 1 Fri 29-05-20 386	External Milestone	Inactive Summary		Rollup			Critical Split Progress	
L 2 2 3 4 5 5 5 7 7 8 0 0 1 2 2 3 4 4 5 5 5 7 7 8 0 0 1 2 2 3 4 4 5 5 5 7 7 8 0 0 0 0 1 1 2 2 8 8 0 0 0 0 0 1 1 1 1 2 8 8 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Construction of Paved Area Installation of Traffic / Directional Signs External Finishes Material submission of tiles Approval of material of tiles Procurement to delivery of tiles Tilling works Material submission of Paint Comment of material submission of paint Approval of material submission of paints Procurement to delivery of paints Texture spray, fungus resistant paint Construction of Sau Mau Ping Memorial Park Slope improvement work (11NE-D/CR222) Material submission of Pavillion Approval of material submission of Pavillion Procurement to delivery of Pavillion Material submission of Bench Approval to material submission of Bench Procurement to delivery of Bench Design submission of Pole Light to LCSD Material submission of Pole Light Approval of material submission of Pole Light Approval of material submission of Pole Light NE/2016/05 Task	30 days 30 days 307.25 dl 30 days 30 days 30 days 30 days 30 days 30 days 30 days 15 days 30 days 15 days 30 days 3	Tue 15-06-21 ay, Fri 01-01-21 Fri 01-01-21 Wed 03-02-21 Mon 12-04-21 Sat 26-06-21 Thu 29-07-21 Wed 01-09-21 Thu 29-07-21 Wed 01-09-21 Thu 21-10-21 Mon 08-11-21 ay, Mon 02-03-20 Thu 07-05-20 Wed 10-06-20 Thu 07-05-20 Wed 10-06-20 Thu 14-07-20 Wed 10-06-20 Thu 14-07-20 Wed 10-06-20 Thu 10-05-20 Sat 30-05-20	Fri 10-12-21 Wed 03-02-21 4 Tue 09-03-21 367 Mon 12-04-21 368 1 Sat 15-05-21 369 Thu 29-07-21 306 Wed 01-09-21 371 1 Tue 05-10-21 372 Thu 21-10-21 373 Sat 06-11-21 374 1 Fri 10-12-21 375 0 Thu 29-07-21 Fri 16-04-21 Wed 10-06-2C 385 0 Tue 14-07-20 380 Wed 10-06-2C 385 0 Tue 14-07-20 382 Sat 15-08-20 383 0 Thu 07-05-20 383 0 Thu 07-05-20 385 1 Fri 29-05-20 386	Inactive Task	Manual Task	Manual Summary     Manual Summary     Start-only	Rollup	<ul> <li>Finish-only</li> <li>Deadline Critical</li> </ul>	] &	Critical Split Progress	



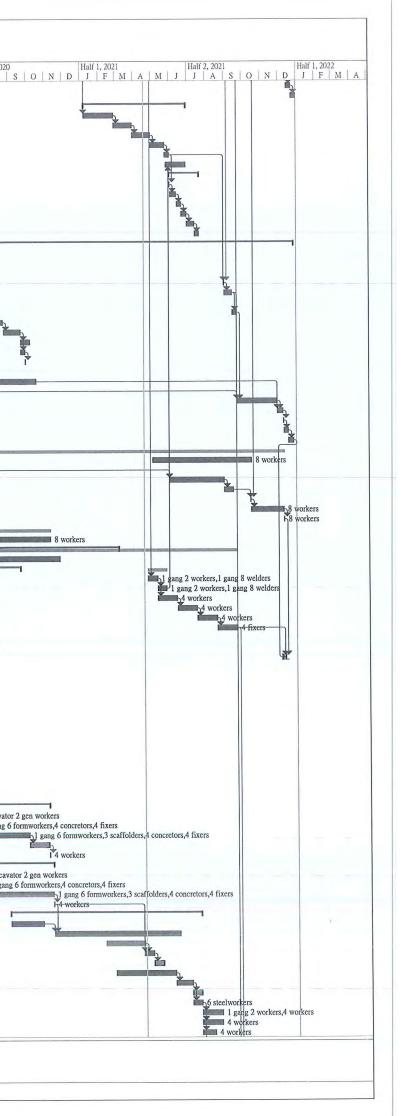
						Conr	Development of Anderson Road Quarry S nection of Pedestrian Facilities Works Phase 1	- Programme	
Task Name		Duration	Start	Finish Prede	ce:7	Ialf 2, 2017 Half 1, 2018	Section A Portions 1, 2, 3 - 31 March 202 Half 2, 2018 Half 1,	Ualf 2 2010 Half 1	, 2020 Half
Construction of Pavillic	n, bench, pole light with ducting	90 days	Thu 01-04-21	Sat 10-07-21 388	M A M J	J A S O N D J F M A	M J J A S O N D J	$ \begin{array}{c c} F & M & A & M & J & J & A & S & O & N & D & J \\ \hline F & M & A & M & J & J & A & S & O & N & D & J \\ \end{array} $	
Construction of Irrigation		50 days	Thu 01-04-21	Wed 26-05-21388					
Construction of Pavers Handovwer to LCSD		50 days 7 days		Wed 26-05-21388 Thu 03-06-21 391	-				
General Inspection and T	idy Up of Portion 1	5 days		Wed 09-06-21					
General Inspection and		4 days		Tue 08-06-21 392					
Handover Portion 1		1 day	Tue 08-06-21	Wed 09-06-21394					
Section A, Portion 2 -	Lift Tower (E2)								
Handover of Portion 1		1 day	Sat 01-04-17	Sat 01-04-17 Thu 13-07-17 398	2				
Site Preparation Works Submissions			Wed 02-08-17						
MS for Lift LT1 excava	tion	30 days	Tue 08-08-17	Sat 09-09-17			-		
MS Footbridge				3 Mon 18-06-18 7 Mon 04-09-17		-			
MS trench excavation Substructure				Mon 20-07-20					
CSD				Fri 05-10-18 399					
MS for socket H pile E2 MS for ELS covered wa				Thu 02-08-18 7 Thu 05-04-18					
MS for platform for min		59 days	Mon 18-12-17	7 Wed 21-02-18					
MS Rock fall fence (2 r			Mon 05-03-18	8 Sat 05-05-18 Thu 10-01-19 399					
MS tree pruning propos MS working platform	ai (4 revisions)			Wed 25-07-18					
MS ELS E2-PC1		30 days	Tue 20-11-18	Sat 22-12-18					
MS Piling MS Temp Gravity Wall	for RWE 3b (3 revisions)		Tue 27-11-18 Fri 07-12-18						
MS Concrete Block Pla	tform (2revisions)	35 days	Sat 08-12-18	Wed 16-01-19					
MS Predrilling E3-PC2	(2 revisions)		Mon 10-12-18	8 Sat 12-01-19 Wed 16-01-19					
MS footbridge MS Lift Tower		30 days 30 days		Sat 19-01-19					
Method Statement for C	Construction of Portion 2	45 days	Fri 05-10-18	Sat 24-11-18 405					
	Piling, ELS, Pilecap and Pier Construction 3 Footbridge and Lift Tower			Tue 11-12-18 405 8 Wed 16-10-19				1	
Submission of MS for f	ormwork design for concreting Bridge Pie	rs 150 days	Wed 01-08-1	8 Tue 15-01-19					
Approval of MS for for	mwork design for concreting Bridge Piers	40 days	Wed 16-01-19	9 Fri 01-03-19 422					
	sion of Lift Towers E2-ST1 and E3-ST1 ( MS Submission of Lift Towers	30 days		9 Mon 15-04-19424				ř.	
Submission of MS for i	nstallation and Temporary Works design f	or 200 days	Wed 01-08-1	8 Tue 12-03-19					
	np Works design for concreting of Lift tow nd Material for Bridge Bearings	er 30 days 30 days		9 Mon 15-04-19426 9 Sat 18-05-19 427	-				
	Material for Bridge Bearings	30 days		Fri 21-06-19 428					
Testing and result subm	ission of Bridge Bearings	84 days		Mon 23-09-19429					
Procurement, ordering Steel Bridge	and delivery of Bridge Bearings	20 days 501.5 day		Wed 16-10-19430 Wed 04-11-20				1	
Submission of MS for I		60 days	Wed 01-05-1	9 Sat 06-07-19					
	ication of steelworks for E2 and E3 brication of steelworks for Bridge E2 and	30 days		Sat 25-05-19					
Approval of Off-Site fa Submission of Design of				0 Mon 23-03-20 434					
Approval of Design of	roof system	20 days	Tue 24-03-20	Wed 15-04-20436					
Submission of Materia Approval of corrugated	l of Corrugated Steel Roof			0 Mon 23-03-20435 Wed 15-04-20438					
	of corrugated steel roof		Wed 15-04-2	0 Thu 27-08-20 439			-		
Submission of material		30 days		0 Mon 23-03-20435 Wed 15-04-20441					
Approval of fall arrest Procurement to deliver		20 days 90 days		0 Fri 24-07-20 442					
Submission of Design of	of Glazing and Louvre	30 days		0 Fri 03-07-20 435					
Approval of Design and Procurement, ordering	1 Glazing and Louvre and delivery of Glazing and Louvres	80 days 30 days		Thu 01-10-20 444 Wed 04-11-20 445					
E&M and Building worl	(S	445.5 day	ys Tue 24-09-19	9 Wed 03-02-21					
	wing for irrigation system and submersibl			0 Sat 05-09-20 Fri 09-10-20 448					
Approval of shop draw Submission of Ventilat	ing for irrigation system and submersible p on System	30 days		Fri 09-10-20 448					
Design submission of l	ghting at footbridge			7 Thu 30-07-20				4	<b>-</b>
Approval of Design Su Procurement to deliver	bmission of Lighting at footbridge	60 days 60 days		0 Wed 02-09-20451 20 Mon 09-11-20452					
Submission of MS for	Lift Installation	60 days	Mon 15-06-2	20 Thu 20-08-20					P. COLOR
Approval of MS for Li	ft Installation	60 days		0 Tue 27-10-20 454 Wed 18-11-20					
Procurement, ordering Application of E1 XP	and delivery of Lift or telemetry by AECOM			Sat 31-10-20					
Completion of Teleme	ry Civil & E&M Works	36 days	Mon 02-11-2	20 Wed 03-02-21457					
Setout Predrill location Contractor Site Office		1151.25 d 2 days		17 Tue 03-11-20 17 Tue 25-04-17	h				
Site Clearance		70 days	Thu 27-04-1	7 Fri 14-07-17 460		2			
MS rock slope excavat	ion (4 revisions)			7 Wed 21-02-18399 18 Sat 03-03-18 462		1 gang 2	workers		
Inspection pits Noise Barrier for LT1		10 days 1 day		Sat 03-03-18 462 Sat 03-03-18 463		N8 workers			
Blocks for Platform an	d wall	27 days	Sun 04-03-1	8 Tue 03-04-18 464	,462	Yama A	1 rig 6 gang members		
E2-PC1 Piling EOT school examinati	an PMI 051	35 days 7 days		18 Sat 12-05-18 465 Fri 13-04-18	-				
EOT school examinati Presplitting PMI 054	50 FIVILUST	120 days	Tue 15-05-1	8 Wed 26-09-18466			1 garg 2 workers		
Rock slope cutting at I		151 days	Tue 15-05-1	8 Mon 02-11-20466			()		
EOT school examinati Rock slope cutting at I	on PMI 117 T1 to ground level(cont)	2 days 61 days		8 Fri 02-11-18 469 Tue 03-11-20 470					
EOT school examinati		20 days	Wed 09-01-	19 Thu 31-01-19 471			9	¥	
EOT school examinati		20 days 27 days		9 Wed 06-05-20472 9 Mon 25-03-19473					
Rock slope cutting at I CE171 10 days exam 1	.T1 to ground level(cont) Mar & April 2019	27 days 10 days	Mon 25-03-	19 Fri 05-04-19 474					
Rock cutting to basem	ent level	396 days	Sat 06-04-19	Tue 23-06-20 475				3 scaffolders,4 workers	
Rock dowel stabilizati Rock dowel stabilizati	on PMI 076, PMI 080, PMI 103, PMI 132 on PMI 197	, P 40 days 56 days		19 Wed 15-05-19 8 Mon 14-01-19					
Site Formation Works	0111411197	611 days	s Tue 13-11-1	18 Sat 26-09-20				workers	
Inspection Pit PMI 10		15 days	Tue 13-11-1	8 Thu 29-11-18			■ 1 gang P ■ 1 excavator	y or kers	
Trial Trench for tree r Approval of tree pruni		7 days 85 days		8 Tue 20-11-18 9 Mon 15-04-19410					
Prune / Fell trees for a		10 days	Tue 16-04-1	9 Fri 26-04-19 419				4 painters	rkers
Relocation of RCP		14 days		9 Mon 17-06-19				4 workers	
5 SWAP TTA				19 Tue 29-10-19 484		A T	Manual Summary Rollup	Finish-only <b>3</b> Critical Split	
		Sun	nmary		External Milestone	♦ Inactive Summary		Deadline Progress	
ect: NE/2016/05	Split	D	ject Summary	8	I Inactive Task	Manual Task	Manual Summary	Deadline	



Label     Data									Connection of I Sec	Contract No. NE elopment of Andersor Pedestrian Facilities V tion A Portions 1, 2, 3	n Road Quarry Site Works Phase 1 - Pro 3 - 31 March 2021	_				
	D	Fask Name	Duration	Start	Finish Prede	ce:7	Half 2, 2017	Half 1, 2018	B M   A   M   I	Half 2, 2018	Half 1, 201	9 M   A   M   J	Half 2, 2019	Half 1, 20 O   N   D J   F	20   M   A   M   J	Half 2, 202 J A
	486													×		-
	488	Deploy Excavator and trim ground and slope from Retaining Wall 3b	81 days	Mon 25-02-19	Sat 25-05-19							1 e	xcavator 2 gen work	ers		
	489												*	<b>a</b>		1
	491	Remove soil nails during triming	130 days	Wed 01-04-20	Mon 24-08-20										<b>388</b>	t the second sec
	493		10 days	Fri 01-06-18	Tue 12-06-18											
	494 495									-	<b>3</b> 1					
	496	Stop for TTA use	60 days	Sat 10-11-18	Wed 16-01-19495						¥					
	497 498					-										T the second sec
	499												<b>j</b>			1
	501	Deploy GI rig for predrilling	7 days	Tue 23-06-20	Tue 30-06-20 476								AML 1 rig 6 cor	namber:	ì	1 rig 3 ga
	502													1		
	504	Drill Pre-Bore H-Piles at E2-PC2 (2nos)											<b>1</b> 1 r	ig 6 gang members		
Note	506	RC Pilecap Works with couplers	70 days	Mon 16-12-19	Tue 03-03-20 505											
Status         Status<	507														•	
Image: Note: Source and Sou	509	Site formation works	200 days	Mon 02-09-19	Mon 13-04-20508											
Bit         Control Montherman         Description         Description <thdescription< th="">         Description</thdescription<>	511	RC Pilecap Works	11 days	Thu 28-05-20	Tue 09-06-20 510										à	
Image: 200 minute 200	512															-
14       Note: Standard St	514	Excavation 1.2m and remove C&D	60 days	Wed 01-08-18	Sat 06-10-18						cavator 2 gen workers					
Bit         Note of the set of the	515 516									C. All						
Rot         Action         Rot         Action         Rot         Rot <throt< th="">         Rot         Rot         Ro</throt<>	517	Shoring works	15 days	Wed 23-12-20	Sat 09-01-21 516											
Normal Markandon La vier La Normal Markan         Normal Mar	519	backfill	4 days	Sat 16-01-21	Thu 21-01-21 518											
1000000000000000000000000000000000000																
Disp         Disp <thdisp< th="">         Disp         Disp         <thd< td=""><td>522</td><td>Installation of steel sheet roof for covered walkway</td><td>10 days</td><td>Sat 06-02-21</td><td>Wed 17-02-21521</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<></thdisp<>	522	Installation of steel sheet roof for covered walkway	10 days	Sat 06-02-21	Wed 17-02-21521											
Disk         Disk <thdisk< th="">         Disk         Disk         <thd< td=""><td>524</td><td>Installation of Irrigation Pipe</td><td></td><td>Fri 12-03-21</td><td>Mon 29-03-21523</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<></thdisk<>	524	Installation of Irrigation Pipe		Fri 12-03-21	Mon 29-03-21523											
Display	525	GI Predrilling works	10 days	Sat 18-04-20	Wed 29-04-20											
$ \begin{array}{c c c c c c } \hline 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 &$	527	Tower crane construction at Tennis Court	137 days	Sat 19-10-19	Mon 01-06-20491									4	·····	1 aver
Tot Mark Subject Cal-Lober Cal-Lo	528 529															
93       Note-is-is-is-is-is-is-is-is-is-is-is-is-is-	530	Temp. Work Design Calculation for cut slope and shoring	89 days	Fri 31-07-20	Sat 07-11-20 529											
State         The Wards         Isole State         State State         State State State         State St	532	Piling works	60 days	Fri 01-01-21	Tue 09-03-21 531											
SD         Display         State         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdisplay< td=""><td>533 534</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdisplay<></thdisplay<></thdisplay<>	533 534															
323       Lot of	535	Lift Tower E3-ST1	427.75 da	ay:Tue 23-06-20	Thu 14-10-21											<b>.</b>
Size       Loc - 3m200       10 alor	537			Mon 07-09-20	Sat 31-10-20 536											
1000000000000000000000000000000000000	538 539				a presentation of the second											
10/2         Lot 27.4.070 u +11 4.077         10.409         F16.0.21 F16.070         F16.0.21	540	Level +33mPD to +34mPD	10 days	Sat 05-12-20	Wed 16-12-20539											
STM       Control + Landbro       Didegic       Phi 27-0-21       Mod 124-21-24         Ling + Landbro       Statub       Mod 124-21       Mod 124-21       Mod 124-21         Ling + Landbro       Didegic       Phi 27-0-21       Mod 124-21       Mod 124-21         Ling + Landbro       Didegic       Phi 27-0-21       Mod 124-21       Mod 124-21         Ling + Landbro       Didegic       Phi 28-22       Mod 124-21       Phi 126-21         Ling + Landbro       Didegic       Phi 126-21       Phi 126-21       Phi 126-21       Phi 126-21         Ling + Landbro       Phi 126-21	541 542															
510       Construction 0 = 75.000 P = 15.000 P	543	Level +41.4mPD to +43.6mPD	10 days	Thu 25-03-21	Mon 05-04-21542											
987       Log 41 420070 s + 3207       9009       Inc. 41.042154       Herd 434007 s + 5207       Herd 43400	545	Level +47mPD to +50.8mPD	10 days	Tue 27-04-21	Fri 07-05-21 544											
Site       Lord - 32.00 <sup>-1</sup> 0 + 50 <sup>-1</sup> Dir       Dir       Sol + 20.42       With 40.400.2137       Height - 10.42       With 40.400.2139         Dir       Lord - 70.4270 <sup>-1</sup> Dir + 50.40 <sup>-1</sup> Dir       Dir       Pice 10.421.190       Height - 10.421.190       Height - 10.421.190       Height - 10.421.190         Size - 40.400 <sup>-1</sup> Dir + 50.40 <sup>-1</sup> Dir       Dir       Pice 10.421.190       Height - 10.421.190       Hei	546 547															
2000       Locat + SharD to + 65, 68 PD       0 = 10, 69 PD       10, 20 PC       10, 69 PC       10, 20 PC       10, 69 PC       10, 10 PC	548	Level +58.2mPD to +59.7mPD	10 days	Sat 19-06-21	Wed 30-06-21547	- Normania										
3250 3250 3250 3250 3250 3250 3250 3250	550	Level +63mPD to +66.5mPD	·10 days	Fri 23-07-21	Tue 03-08-21 549											
535       Encode into even and internal califolding       153       Remove know er carae       7 days       Tech 10-12 and 12-3 Till         535       Distanding of external and internal califolding       15 days       Tech 20-3 152 and 12-3 Till       Tech 20-3 Till </td <td>551 552</td> <td></td>	551 552															
353       Decimanding or external and increase set Rod Stope and Wild Local Stope and Wild Loca	553	Remove tower crane	7 days	Tue 31-08-21	Wed 08-09-21552											
350       Initi No.Fine Concrete between Rock Stoge and Wall CPL-ST       00 days       Sat 2.9-20       Woll 300-92-2000-2000-2000-2000-2000-2000-200	555					554										
Signed File File File File File File File File	556	Infill No Fine Concrete between Rock Slope and Wall of E3-ST1														
0:00       Electrical vocks and Lgb (ngls, conjunc) = 1 (4)/3       Pi104-05-20       Mal 249-20-397         0:00       Conduct and cohe constant wing       14 (4)/9       Pi 1704-25-20       Stat 110-23         0:00       Conduct and cohe constant wing       14 (4)/9       Pi 1704-25-20       Stat 110-23         0:00       Conduct and cohe constant wing       14 (4)/9       Pi 1704-25-20       Stat 110-23         0:00       Conduct and cohe constant wing       14 (4)/9       Pi 1704-25-20       Stat 110-23         0:00       Fitter and twing       14 (4)/9       Pi 1704-25-20       Stat 110-23         0:00       Man 140-109       Victo 100-12-19       Handowe fitter and associated decing to EAM       1 day         0:00       Fitter and the constant of the const syntex rot to EAM Lift absociated decing to EAM       1 day       Victo 249-02-2154-25         0:00       Confirmation of telenety syntex rot to EAM Lift absociated decing to EAM       1 day       Victo 249-02-20       Victo 249-02-20         0:00       Confirmation of telenety syntex rot to EAM Lift absociated decing to EAM       1 day       Victo 240-02-00       Victo 240-02-00         0:00       Confirmation of Lift Sitt Mile Toole and Mile Sole       0 days       Sin 0-1-20       Sin 0-1-20       Sin 0-1-20       Sin 0-1-20       Sin 0-1-20       Sin 0-1-20	558	E3 Lift Tower Lighting	270 days	Thu 07-05-20	Fri 05-03-21										h.	
501       Contain and cable containing       7 days       7 13 0.96.21       Fri 2.96.21       51         502       Colume diving       13 days       Kon 1.90.21       Kon 2.90.21       Scill       Kon 1.90.21       Kon 2.90.21																
563       Installation of Light Witty Constrained Plane	561	Conduit and cable containment	7 days	Fri 20-08-21	Fri 27-08-21 551											
505       50 Juli Distallation - Staff and Algorithm - Staff and Algo	563	Installation of Light fitting	13 days	Mon 13-09-2	Mon 27-09-21562											
566       Statuary Submission of Lift Design and Materials       60 ays       Mone 14-10-19       Thu 10-12-19       Thu																-
568       RAM vorks inside Lift Shaft       10 days       Fri 20-08-21       Wed 22-09-21/561         69       Handvore 7 Lift Structure to E&M. Lift Suborntarcor       1 day       Wed 22-09-21/561         700       Confirmation of telemetry cable system       1 day       Wed 12-09-21/564         701       Chubb/HKT cable laying for telemetry cable system       2 days       Wed 16-09-20       Wed 16-09-20         711       Chubb/HKT cable laying for telemetry cable system       3 days       Sun 01-120       Fri 30-10-20       Fri 30-10-20         712       Chubb/HKT cable laying and lead-in into Pllate Box       1 day       Sun 04-12-20       Fri 10-12-20       Fri 10-12-20       Fri 0-12-20       Fri 0-12-20 <t< td=""><td>566</td><td>Statuary Submission of Lift Design and Materials</td><td>60 days</td><td>Mon 14-10-19</td><td>9 Thu 19-12-19</td><td>455</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	566	Statuary Submission of Lift Design and Materials	60 days	Mon 14-10-19	9 Thu 19-12-19	455										
570       Confirmation of telemetry score routing with CHUBB /HKT       150 days       Wed 10-04-20 True 1509-20.1         571       Chubb /HKT cable laying to telemetry cable system       26 days       Wed 10-04-20 True 1509-20.1         571       Chubb /HKT cable laying and lead-in into Pillar Box       30 days       Sun 01-11-20       Thi 10-10-20       571         573       CLP table laying and lead-in into Pillar Box       30 days       Sun 01-11-20       Thi 00-12-20       571         575       CLP Lift Meter Power and Connecting to telemetry components in billar Box       30 days       Sun 01-12-20       571         774       CLP table laying and lead-in into Pillar Box       16 days       Yei 04-12-20       573         776       Procurement to delivery of Sump Pump and Pame part Box       96 days       Yei 12-20       573         776       Procurement to delivery of Lift components to site       18 days       Mon 29-06-20       Stal 12-12-20         777       Handover Sump Pillar Box       16 days       Wed 20-09-21       Mon 29-12-21       Yei 14-12-21         778       Installation of Sump Pump tabry Pump (MP Luen)       18 days       Mon 29-12-21       Yei 14-12-21       Stal 2-12-20       Stal	568	E&M works inside Lift Shaft	30 days	Fri 20-08-21	Wed 22-09-21551											
711 1       Chub/d/KT cable laying for telemetry cuble system       26 days       Weid 16-022 0 Weid 10-020 X71         727 1       Installation and connection of telemetry components in Pillar Box       16 days       Fin 04-12-20 Fin 04-12-20 Fin 04-12-20 S73       Fin 04-12-20 S74         737 575 575       CLP Lift Meter Power and Connection       1 day       Fin 04-12-20 S74       Fin 04-12-20 S74       Fin 04-12-20 S74         757 575       CLP Lift Meter Power and Connection to delivery of Sump Pump and Pan I       96 days       Sat 12-02-20 S74       Sat 12-02-20 S74         757 575       Procurement to delivery of Sump Pump and Pan I       96 days       Sat 12-06-20 S17, 576       Sat 12-06-20 S17, 576         757       Installation of Sump Pump (by Wing Luen)       18 days       Mon 29-16-20 S77, 576       Sat 16-07-20 S77, 576         758       Testing & commissioning       16 days       Weid 15-04-20 S77, 576       Sat 12-04-20 S74         758       Testing & commissioning Sump (by Wing Luen)       1 days       Mon 29-11-21 S79, 564         758       Testing & commissioning Sump (by Wing Luen)       1 days       Mon 29-11-21 S79, 578         758       Testing & commissioning Sump (by Wing Luen)       1 days       Mon 29-11-21 S79, 578         758       Testing & commissioning Sump (by Wing Luen)       1 days       Mon 29-11-21 S79, 578				F. L.											and the second s	4
373       CLP cable laying and lead-in into Pillar Box $30  days$ Sun 01-120       Fin 00-12-20       Fin 04-12-20       Fi	571	Chubb/HKT cable laying for telemetry cable system	26 days	Wed 16-09-20	Wed 14-10-20570											
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	573	CLP cable laying and lead-in into Pillar Box		Sun 01-11-20	Thu 03-12-20											
576 $577$ Handover Sump Punp and associated ducting to $ExM$ 96 days I dayFri 13-03-20 $1 day$ Sat 27-06-20 $1 day$ Wed 24-06-20 476 $1 day$ Wed 24-06-20 476 $1 day$ Wed 24-06-20 476 $1 day$ Wed 24-06-20 476 $1 day$ Wed 24-06-20 577, 576 $1 day$ Wed 24-06-20 577, 576 $1 day$ Wed 24-06-20 577, 576 $1 day$ Wed 22-09-21 $1 day$ Wed 24-06-20 577, 576 $1 day$ Wed 22-09-21 $1 day$ Wed 22-09-21 $1 day$ Wed 29-11-21 $1 day$ Wed 29-11-21 $1 day$ Wed 15-12-21 $1 day$ Wed 16-12-21 $1 day$ Wed 16-12-21 $1 day$ Wed 16-12-21 $1 day$	574	CLP Lift Meter Power and Connection	1 day	Fri 04-12-20												
578       Installation of Sump Pump (by Wing Luen)       18 days       Mon 29-06-20       Sat 18-07-20       S77,576         579       Delivery of Lift components to site       180 days       Wed 15-04-20       Mon 29-11-21       F         580       Lift installation and Lift Shaft Ventilation installation       60 days       Wed 22-09-21       Mon 29-11-21       Tor 14-12-21       Wed 15-04-20       Mon 29-11-21       Tor 14-12-21       Wed 15-04-20       Mon 29-11-21       Tor 14-12-21       Wed 15-04-20       Mon 29-11-21       Tor 14-12-21       Wed 15-02-21       Mon 29-11-21       Tor 14-12-21       Wed 15-02-21       Wed 15-02-21       Wed 15-02-21       Wed 15-02-21       Wed 15-02-21       Wed 15-02-21       Mon 29-11-21       Tor 14-12-21       Wed 15-02-21       Wed 1	576	Procurement to delivery of Sump Pump and Panel	96 days	Fri 13-03-20	Sat 27-06-20											
579       Delivery of Lift components to site       180 days       Wed 15-04-20       Mon 02-11-20       Mon 02-11-20       Mon 02-11-20       Mon 02-11-21       Mon 02-11-21 <td></td> <td>1</td>																1
581 582       7 Esting & commissioning EMSD Form LES submission       1 day       Mon 29-11-21       Tue 14-12-21       569,578         582       EMSD Form LES submission       1 day       Tue 14-12-21       Wed 15-12-21 581       Image: Set 100 100 100 100 1000 1000 1000 1000 1	579	Delivery of Lift components to site	180 days	Wed 15-04-2	0 Mon 02-11-20											1
Project: NE/2016/05       Task       Summary       Summary       External Milestone       Inactive Summary       I       Manual Summary Rollup       Finish-only       J       Critical Split       Original Split         Date: 31 March 2021       Milestone       Manual Task       Manual Task       Manual Summary       Image: Split       Manual Summary       Image: Split       Split       Progress       Progress       Progress       Progress       Image: Split       Split       Image: Split       Split <td>581</td> <td>Testing &amp; commissioning</td> <td>14 days</td> <td>Mon 29-11-2</td> <td>1 Tue 14-12-21 569,</td> <td></td>	581	Testing & commissioning	14 days	Mon 29-11-2	1 Tue 14-12-21 569,											
Project: NE/2016/05     Split     Project Summary     I     Inactive Task     Manual Task     Manual Summary     I     Deadline     I     Progress       Date: 31 March 2021     Milestone     External Tasks     Inactive Milestone     Duration-only     Start-only     E     Critical				Tue 14-12-21										0		
Date: 31 March 2021     Spit     Froger Summary     Froger Summary     Froger Summary     Froger Summary       Milestone     External Tasks     Inactive Milestone     Duration-only     Start-only     E     Critical	1 1	NE/2016/05					0			-	up				***************************************	1 20988
	Date: 3									-	τ.					
		I								Page	6					



					Contract No. NE/2016/05 Development of Anderson Road Quarry Site Connection of Pedestrian Facilities Works Phase 1 - Programme Section A Portions 1, 2, 3 - 31 March 2021
I	ïask Name	Duration	Start	Finish Predece	
83	EMSD Inspection	7 days		Thu 23-12-21 582	
84 85 1	Use Permit E2-LT1 Lift Shaft Construction	7 days 154 days	Thu 23-12-21 Thu 07-01-21	Fri 31-12-21 583 Tue 29-06-21	
86	Completion of RC structure 1/F	45 days	Thu 07-01-21	Fri 26-02-21 499	
37 38	Completion of RC structure 2/F Completion of RC structure R/F	28 days 28 days		Tue 30-03-21 586 Fri 30-04-21 587	
9	Erection of glazing and louvres	21 days	Fri 30-04-21	Mon 24-05-21588	
)	Dismantling of external and internal scaffolding Remaining E2-PC2 Pier and cantilever slab	7 days 30 days		Tue 01-06-21 589 Tue 29-06-21 634	
	E2-LT1 Lift Lighting	45 days	Tue 01-06-21		
	Handover EMSD Pillar Box and associated ducting to E&M	1 day		Wed 02-06-21 590	
1	Electrical works inside Pillar Box EMSD and Lighting Compartme Conduit and cable containment	7 days		Sat 12-06-21 593 Mon 21-06-21594	
	Cable and wiring	8 days		Wed 30-06-21595	
7	Installation of Light fitting T&C	12 days 7 days		Tue 13-07-21 596 Wed 21-07-21597	
	E2-LT1 Lift Tower Installation	865 days	Fri 03-05-19	Mon 27-12-21	
	MS for E2 Lift Tower Erection Approval of submission	90 days 30 days	Fri 03-05-19 Mon 12-08-19	Mon 12-08-19 Sat 14-09-19 600	
2	Statuary Submission of Lift Design and Materials	.60 days	Mon 14-10-19		
3	Handover lift shaft and associated ducting to E&M	1 day		Wed 01-09-21590,55	52
5	E&M works inside Lift Shaft Handover Sump Pit and associated ducting to E&M	12 days 1 day		Tue 14-09-21 603 Wed 24-06-20476	Υ΄
5	Handover of Lift structure to E&M Lift subcontractor	7 days	Wed 15-09-21	Wed 22-09-21604	
5	Confirmation of telemetry service routing with CHUBB / HKT Chubb/HKT cable laying for telemetry cable system	150 days 26 days	Mon 09-03-20 Mon 24-08-20	Sat 22-08-20 Mon 21-09-20607	
)	Installation and connection of telemetry components in Pillar Box	14 days	Tue 22-09-20	Wed 07-10-20608	
	CLP Lift Meter Installation CLP Lift Meter Power Connection	7 days 1 day		Tue 29-09-20 608 Wed 30-09-20610	
1	Procurement to delivery of Sump Pump and Panel	96 days	Fri 13-03-20	Sat 27-06-20	
	Installation of Sump Pump (by Wing Luen)	100 days	Mon 29-06-20	Sat 17-10-20 605,61	12
	Delivery of Lift components to site Lift installation and Lift Shaft Ventilation installation	180 days 60 days	Mon 02-12-19 Wed 22-09-21	Fri 19-06-20 Mon 29-11-21614,60	04
	Testing & commissioning	10 days	Mon 29-11-21	Thu 09-12-21 613,61	
	EMSD Form LE5 submission EMSD Inspection	1 day 7 days		Fri 10-12-21 616 Sat 18-12-21 617	
)	Use Permit	7 days	Sat 18-12-21	Mon 27-12-21618	
1	Drainage and Landscape works at Hiu Ming Street Decoration and Finishings Works at Hiu Ming Street		ys Fri 01-03-19 Mon 03-05-21		
2	Application of XP for Drainage Works at Hiu Ming Street		Fri 01-03-19		
3	Approval of TTA for construction of Drainage Works at Hiu Ming				
4	Road Works Advice Implementation of TTA	14 days 1 day		Thu 16-09-21 623 Fri 15-10-21 624,55	55
5	Drainage works at Hiu Ming Street		Sat 16-10-21	Fri 10-12-21 625	
7 8	General Tidy Up Drainage Hiu Kwong Street PMI 045	1 day	Sat 11-12-21 Mon 01-06-20	Sat 11-12-21 626	
9	Water Main Diversion	1 day 130 days	Thu 18-06-20		
0	Steel Bridge between E3-ST1 and E3-P1	250 days	Mon 01-06-20	Sun 07-03-21	
1 2	Fabrication and Delivery of Fabricated Steelworks On Site Steelworks fabrication		Mon 01-06-20 ay: Mon 01-06-20		
3	Construction of Steel Bridge Deck between E3-ST1 and E3-P1	P14 days	Sat 24-04-21	Tue 11-05-21 534	
4	Construction of steel Roof E3-ST1 to E3-P1 Pier			Wed 26-05-21633 Sat 12-06-21 633	
6	Construction of Screeding and paving blocks Installation of parapets and planters	30 days		Fri 16-07-21 635	
7	Installation of lightings to steel truss between E3 tower and E3 ab			Thu 19-08-21 636	
8	Installation of irrigation Pipe and water point Landscape Works	30 days 15 days		Wed 22-09-21637 Wed 17-06-20	
0	Tree Pruning PMI 044	15 days	Mon 01-06-20	Wed 17-06-20	4 wor
1	Handover Portion 2	1 day	Sat 11-12-21	Mon 13-12-21627,63	
	Bridge between E2-P1 and E2-P3 (Section A E3 Portion 3)	427.25 d	ay:Fri 21-12-18		
4	Partial Handover of Portion 3	1 day 30 days	Fri 21-12-18	Fri 21-12-18 Thu 24-01-19 644	
5	Application of XP Delay Possession of Partial Handover	63 days		Sat 02-03-19 644	
7	Waiting for Full Handover of Portion 3	71 days	Sat 02-03-19	Tue 21-05-19 646	4 surveyors
8	Initial site survey Erection of Hoarding at South bound footpath of Hiu Kwong Stre	1 day et 7 days		Wed 22-05-19647 Thu 30-05-19648	14 surveyors 1 gang 2 workers, 4 workers
C	RA approval from District Council	60 days	Thu 30-05-19	Mon 05-08-19649	
1	TownGas Diversion Works Release of Crassing and shadow island	the second se		Mon 25-11-19649,6 Fri 06-12-19 651	-4 workers
5	Relocation of Crossing and shadow island Trial Pit at E2-PC3 for UU	10 days 7 days		Sat 14-12-19 652	1 excavator 2 gen workers
5	TownGas Handover Portion 3	90 days	Sat 14-12-19	Tue 24-03-20 653	s workers
	Diversion of CLP lamp post Construction of E2-F3	7 days 197 days		Wed 01-04-20654 Sat 07-11-20	t i i i i i i i i i i i i i i i i i i i
	Rock excavation with shoring for E2-F3	81 days	Wed 01-04-20	Tue 30-06-20 655	
	Construction of pad footing E2-F3	10 days 75 days		Sat 11-07-20 657 Sat 03-10-20 658	
-	Construction of column for E2-F3 Construction of pier head for E2-F3	30 days		Fri 06-11-20 659	
	Installation of bearing at E2-P2 and E2-P1	1 day	Fri 06-11-20	Sat 07-11-20 660	
	Construction of E2-F4 Rock Excavation with shoring for construction of E2-F4	176 days 65 days		Fri 13-11-20 Mon 13-07-20	
	Construction of pad footing of E2-F4	10 days	Mon 13-07-20	) Thu 23-07-20 663	
	Construction of columns for E2-P3 and Bridge Deck Installation of bearing	100 days 1 day		Thu 12-11-20 664 Fri 13-11-20 665	
		289.25 day	ays Tue 01-09-20	Wed 21-07-21	
	Steel footbridge works			Mon 26-10-20	566
	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1	2- 190 days		Tue 15-06-21 668,6 Fri 16-04-21	
3 1 5 5 7 3 9		E260 days		Sat 01-05-21 666,6	570
3 4 5 7 3 9 0 1	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1 Preparation works and Lifting of steel truss between E2-LT1 to E Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, Preparation works and lifting of truss for E2-P3 to connect to brid	dge15 days			
3 4 5 5 5 7 7 8 9 9 0 1 1 2	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1 Preparation works and Lifting of steel truss between E2-LT1 to E Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, Preparation works and lifting of truss for E2-P3 to connect to brid Bridge Deck Construction	dge 15 days 15 days	Sat 01-05-21		
3 4 5 6 7 8 9 0 1 2 3 4	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1 Preparation works and Lifting of steel truss between E2-LT1 to E Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, Preparation works and lifting of truss for E2-P3 to connect to bric Bridge Deck Construction Off site Fabrication of Steel deck truss between E2-P1 to E2-P2 Preparation works and Lifting of steel truss between E2-P1 to E2-P2	dg(15 days 15 days 90 days -P:25 days	Sat 01-05-21 Fri 26-02-21 Mon 07-06-21	Mon 07-06-21 1 Mon 05-07-21673	
3       4       5       6       7       8       9       0       1       2       3       4       5	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1 Preparation works and Lifting of steel truss between E2-LT1 to E Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, Preparation works and lifting of truss for E2-P3 to connect to bric Bridge Deck Construction Off site Fabrication of Steel deck truss between E2-P1 to E2-P2 Preparation works and Lifting of steel truss between E2-P1 to E2-P2 Bridge Deck Construction	dg(15 days 15 days 90 days -P:25 days 15 days	Sat 01-05-21 Fri 26-02-21 Mon 07-06-21 Mon 05-07-2	Mon 07-06-21 Mon 05-07-21673 Wed 21-07-21674	
3       4       5       6       7       8       9       0       1       2       3       4       5       6	Off site Fabrication of Steel deck truss between E2-LT1 to E2-P1 Preparation works and Lifting of steel truss between E2-LT1 to E Off site Fabrication of Steel deck truss between E2-P2 to E2-P3, Preparation works and lifting of truss for E2-P3 to connect to brid Bridge Deck Construction Off site Fabrication of Steel deck truss between E2-P1 to E2-P2 Preparation works and Lifting of steel truss between E2-P1 to E2-P2 Bridge Deck Construction Roof installation of bridge from E2-LT1 to E2-P3	dg(15 days 15 days 90 days -P:25 days	Sat 01-05-21 Fri 26-02-21 Mon 07-06-21 Mon 05-07-2 Mon 05-07-2	Mon 07-06-21 1 Mon 05-07-21673	
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						Deve Connection of	Contract No. NE/201 elopment of Anderson Roa Pedestrian Facilities Work tion A Portions 1, 2, 3 - 31	6/05 d Quarry Site s Phase 1 - Programme March 2021				
68	Task Name         0       150mm dia storm drain pipe across Hiu Kwong Street         1       Trenching works for connection of existing water connection p         2       Water meter box and water point connection         3       General Tidy Up for Portion 3         4       Handover Portion 3	oint 30 days Tue 24 30 days Wed 2 5 days Tue 24	Finish         Predece           21-07-21         Tue 24-08-21         676           4-08-21         Mon 27-09-21680         10-7-21           21-07-21         Tue 24-08-21         676           4-08-21         Mon 30-08-21         682           22-09-21         Thu 23-09-21         395,638	M A M J J A A	17   Half 1, 20   S   O   N   D   J   F	Sec  8   M   A   M   J	auon A Fortions 1, 2, 3 - 31 Half 2, 2018 J   A   S   O   N	Marian 2021   Half 1, 2019 D J F M A	Half 2, 2019   M   J   J   A   S   O	Haif 1, 2020 N   D   J   F	Half 2, 2	2020 A   S   C
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Contract 3 (NE/2017/03)

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NNNEControl Note (NCD part)ColPhoto AddNo.24 <td>DN10652         Construct           DN10310         Construct           DN10654         Construct           DN10370         Construct           DN10370         Construct           DN10370         Stope reit           DN10410         Slope reit           DN10232         Existing of           DN11510         Construct           DN11330         (NCE??)           DN10729B         (NCE130)           DN10729C         Install pip           DN11550         Construct           DN10730         Mobilizatic           DN10730         Mobilizatic           DN10730         Mobilizatic           DN10750         Pre-dril &amp;           DN11552         ELS worth           DN10750         Pre-dril &amp;           DN11552         ELS worth           DN10750         Pre-dril &amp;           DN11552         ELS worth           DN20650A         (NCE197)           DN20650A         (NCE067)           DN20650A         (NCE107)           DN20650A         (NCE107)           DN20650A         (NCE107)           DN20650A         (NCE112)           DN20650A</td> <td>Instruct RW footing (RWC2 type 2) Instruct RW footing (RWC2 type 4, 6, 7, 8) Instruct RW wall (RWC2 type 2) Instruct RW wall (RWC2 type 4, 6, 7, 8) Instruct piling doundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 Ital pipe pile wall ainage &amp; utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) Instruct piling foundation in FE1 Type 2 (12nos, 2d/no, 1 team) S works &amp; construct subway footing (KS27 east side) Instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td> <td>225 121 207 213 90 96 48 90 60 90 3 60 72 59 24 90 24 90 12 42 300</td> <td>04-Nov-20 A 07-Nov-20 A 25-Nov-20 A 14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 18-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21</td> <td>16-Aug-21 10-Jun-21 16-Aug-21 06-Nov-21 10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21</td>	DN10652         Construct           DN10310         Construct           DN10654         Construct           DN10370         Construct           DN10370         Construct           DN10370         Stope reit           DN10410         Slope reit           DN10232         Existing of           DN11510         Construct           DN11330         (NCE??)           DN10729B         (NCE130)           DN10729C         Install pip           DN11550         Construct           DN10730         Mobilizatic           DN10730         Mobilizatic           DN10730         Mobilizatic           DN10750         Pre-dril &           DN11552         ELS worth           DN10750         Pre-dril &           DN11552         ELS worth           DN10750         Pre-dril &           DN11552         ELS worth           DN20650A         (NCE197)           DN20650A         (NCE067)           DN20650A         (NCE107)           DN20650A         (NCE107)           DN20650A         (NCE107)           DN20650A         (NCE112)           DN20650A	Instruct RW footing (RWC2 type 2) Instruct RW footing (RWC2 type 4, 6, 7, 8) Instruct RW wall (RWC2 type 2) Instruct RW wall (RWC2 type 4, 6, 7, 8) Instruct piling doundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 Ital pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) Instruct piling foundation in FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) Instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	225 121 207 213 90 96 48 90 60 90 3 60 72 59 24 90 24 90 12 42 300	04-Nov-20 A 07-Nov-20 A 25-Nov-20 A 14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 18-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	16-Aug-21 10-Jun-21 16-Aug-21 06-Nov-21 10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
ObservalObserva	CON10310         Construct           CON10654         Construct           CON10370         Construct           CON10370         Construct           CON10410         Slope reit           CON10322         Existing d           CON10320         Site clear           CON112370         Site clear           CON11230         (NCE??)           CON10729B         (NCE??)           CON10729C         Install pip           CON10270         ELS to pil           CON1230         Construct           CON10270         ELS to pil           CON10270         ELS to pil           CON1030         Mobilizatic           CON1032         Construct           CON1030         Mobilizatic           CON10550         Predrill &           CON10750         Predrill &           CON10750         Predrill &           CON10750         Portor           CON2060A         (NCE057           CON20670         ELS worl           CON20670         ELS to RI           CON20170         Fabricatic           CON20170         Fabricatic           CON20170         Fabricatic <td< td=""><td>Instruct RW footing (RWC2 type 4, 6, 7, 8) Instruct RW wall (RWC2 type 2) Instruct RW wall (RWC2 type 4, 6, 7, 8) uppe reinstatement works (RWC2 type 4, 6, 7, 8) uppe reinstatement works (RWC2 type 1a, 1, 2) Isting drainage pipe diversion e clearance &amp; ELS works (KS27 east side) Instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage &amp; utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) Instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works &amp; construct subway footing (KS27 east side) ublization works for socket H-pile works (RWC2 type 3) unstruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill &amp; construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td><td>121 207 213 90 96 48 90 60 90 3 60 72 59 24 90 12 24 90 12 42 300</td><td>07-Nov-20 A 25-Nov-20 A 14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 18-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21</td><td>10-Jun-21 16-Aug-21 06-Nov-21 10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21</td></td<>	Instruct RW footing (RWC2 type 4, 6, 7, 8) Instruct RW wall (RWC2 type 2) Instruct RW wall (RWC2 type 4, 6, 7, 8) uppe reinstatement works (RWC2 type 4, 6, 7, 8) uppe reinstatement works (RWC2 type 1a, 1, 2) Isting drainage pipe diversion e clearance & ELS works (KS27 east side) Instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) Instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) ublization works for socket H-pile works (RWC2 type 3) unstruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	121 207 213 90 96 48 90 60 90 3 60 72 59 24 90 12 24 90 12 42 300	07-Nov-20 A 25-Nov-20 A 14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 18-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	10-Jun-21 16-Aug-21 06-Nov-21 10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
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OrdersonOrderso	CON10370         Construct           CON10410         Slope reii           CON10670         Slope reii           CON10232         Existing d           CON10232         Existing d           CON10232         Existing d           CON12370         Site clear           CON11510         Construct           CON1729B         (NCE13)           CON10729C         Instal pip           CON10270         ELS to pip           CON10730         Mobizatic           CON10730         Mobizatic           CON10750         Pre-drill &           CON10750         Pre-drill &           CON20650A         (NCE067)           CON20650A         (NCE063)           CON20650A         (NCE063)           CON20650A         (NCE120)	Instruct RW wall (RWC2 type 4, 6, 7, 8) appereinstatement works (RWC2 type 4, 6, 7, 8) appereinstatement works (RWC2 type 1a, 1, 2) isting drainage pipe diversion a clearance & ELS works (KS27 east side) Instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) Instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) oblization works for socket H-pile works (RWC2 type 3) Instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) a-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	213 90 96 48 90 60 90 3 60 72 59 24 90 12 42 300	14-Dec-20 A 14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	06-Nov-21 10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
CARMINO         Representation (SPR (2, 1), 1)         0         14 (Sep 20)         0 (Sep 2)           CARMINO         Representation (Sep 2)         0         20 (Sep 2)         0         0           CARMINO         Representation (Sep 2)         0         20 (Sep 2)         20 (Sep 2)         0           CARMINO         Representation (Sep 2)         0         20 (Sep 2)         <	CON10410         Slope reii           CON10670         Slope reii           CON10232         Existing d           CON12370         Site clear           CON11330         (NCE??)           CON10729B         (NCE130)           CON10729C         Instal pip           CON10729C         Instal pip           CON10729C         Instal pip           CON10720         ELS to pi           CON10730         Mobizatic           CON10730         Mobizatic           CON10750         Pre-dril &           CON20650A         (NCE667           CON20670         ELS to R           CON20670         ELS to R           CON20670         ELS to R           CON20170         Fabricatic           CON20170         Fabricatic           CON20160         ELS to S           CON21650D         Construc	ppe reinstatement works (RWC2 type 4, 6, 7, 8) ppe reinstatement works (RWC2 type 1a, 1, 2) isting drainage pipe diversion a clearance & ELS works (KS27 east side) instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) oblization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	90 96 48 90 60 90 3 60 72 59 24 90 12 42 300	14-Dec-20 A 28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	10-Jun-21 03-Jun-21 06-Jul-21 21-Jul-21 20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
OBUNC         Bits maskers in weight (2014)         I <thi< th=""> <thi< th=""> <thi< th=""> <th< td=""><td>CON10670         Slope rei           CON10232         Existing d           CON12370         Site clear           CON11510         Construct           CON11330         (NCE??)           CON10729B         (NCE130)           CON10729C         Instal pip           CON1270         ELS to pit           CON10729C         Instal pip           CON10729C         Instal pip           CON1270         ELS to pit           CON10700         ELS to pit           CON10730         Mobizatic           CON10750         Pre-drill &amp;           CON10750         Pre-drill &amp;           CON20650A         (NCE067)           CON20650A         (NCE067)           CON20670         ELS to R           CON20170         Fabricatic           CON20170         Fabricatic           CON20160         ELS to R           CON20160         ELS to R           CON</td><td>ppe reinstatement works (RWC2 type 1a, 1, 2) isting drainage pipe diversion a clearance &amp; ELS works (KS27 east side) instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE?3) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 ttall pipe pile wall ainage &amp; utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation pile cap (RWC2 type 5) sworks &amp; construct subway footing (KS27 east side) oblization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill &amp; construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td><td>96 48 90 60 90 3 60 72 59 24 90 12 42 300</td><td>28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21</td><td>03-Jun-21 06-Jul-21 21-Jul-21 20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21</td></th<></thi<></thi<></thi<>	CON10670         Slope rei           CON10232         Existing d           CON12370         Site clear           CON11510         Construct           CON11330         (NCE??)           CON10729B         (NCE130)           CON10729C         Instal pip           CON1270         ELS to pit           CON10729C         Instal pip           CON10729C         Instal pip           CON1270         ELS to pit           CON10700         ELS to pit           CON10730         Mobizatic           CON10750         Pre-drill &           CON10750         Pre-drill &           CON20650A         (NCE067)           CON20650A         (NCE067)           CON20670         ELS to R           CON20170         Fabricatic           CON20170         Fabricatic           CON20160         ELS to R           CON20160         ELS to R           CON	ppe reinstatement works (RWC2 type 1a, 1, 2) isting drainage pipe diversion a clearance & ELS works (KS27 east side) instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE?3) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 ttall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation pile cap (RWC2 type 5) sworks & construct subway footing (KS27 east side) oblization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	96 48 90 60 90 3 60 72 59 24 90 12 42 300	28-Dec-20 A 10-Mar-21 A 30-Mar-21 A 09-Apr-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	03-Jun-21 06-Jul-21 21-Jul-21 20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
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Control         Control <t< td=""><td>200111510         Construct           200111330         (NCE??)           20010729B         (NCE130)           20010729C         Install pip           20010729C         Install pip           20010270         ELS to pil           20010270         ELS to pil           20010270         ELS to pil           20010270         ELS to pil           20011750         Construct           20011730         Mobilzatiz           20011752         ELS work           20011752         ELS work           20011752         ELS work           200120650A         (NCE067)           200120650A         (NCE067)           200120650A         (NCE067)           200120670         ELS to Ri           20012070         Fabricatic           200120670         ELS to Ri           20012060         ELS to Ri           20012061         Further u           20012062         Construc</td><td>Instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage &amp; utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works &amp; construct subway footing (KS27 east side) bilization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill &amp; construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td><td>60 90 3 60 72 59 24 90 12 42 300</td><td>09-Apr-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21</td><td>20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21</td></t<>	200111510         Construct           200111330         (NCE??)           20010729B         (NCE130)           20010729C         Install pip           20010729C         Install pip           20010270         ELS to pil           20010270         ELS to pil           20010270         ELS to pil           20010270         ELS to pil           20011750         Construct           20011730         Mobilzatiz           20011752         ELS work           20011752         ELS work           20011752         ELS work           200120650A         (NCE067)           200120650A         (NCE067)           200120650A         (NCE067)           200120670         ELS to Ri           20012070         Fabricatic           200120670         ELS to Ri           20012060         ELS to Ri           20012061         Further u           20012062         Construc	Instruct piling foundation at FE1 Type 1 (12nos, 5d/no, 1 team) CE??) Construct CT5 Type 1 piling foundation (18nos, 5d/no, 1 team) CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW1 RWC2 tall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) bilization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	60 90 3 60 72 59 24 90 12 42 300	09-Apr-21 A 23-Apr-21 A 18-May-21 A 22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	20-Jul-21 10-Aug-21 21-May-21 02-Aug-21 28-Aug-21 13-Sep-21
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Oktowne         Oktowne <t< td=""><td>XON10729C       Install pip         XON10729C       Install pip         XON12170       Drainage         XON10270       ELS to pil         XON10270       ELS to pil         XON10270       ELS work         XON12390       ELS work         XON10730       Mobilizatic         XON10730       Mobilizatic         XON10750       Pre-drill &amp;         XON10750       Pre-drill &amp;         XON10750       Pre-drill &amp;         XON10552       ELS work         XON20910       Construction         XON20670       ELS to RI         XON20910       Construction Xorks in Slope C3 (Portion I)         XON20670       ELS to RI         XON20910       Construction Xorks in Slope C3 (Portion I)         XON20670       ELS to RI         XON20170       Fabricatic         XON20170       Fabricatic         XON20170       Construct         XON20170       Construct         XON20170       Construct         XON21010       Utilities &amp;         XON21650D       Construct         XON21650G       (NCE112         XON21650G       (NCE112         XON21650F</td><td>tall pipe pile wall ainage &amp; utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works &amp; construct subway footing (KS27 east side) iblization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill &amp; construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 team S works for construct pile cap (FE1-PC1b, 32m, 1m/d) 2 (RIW2) rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td><td>60 72 59 24 90 12 42 300</td><td>22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21</td><td>02-Aug-21 28-Aug-21 13-Sep-21</td></t<>	XON10729C       Install pip         XON10729C       Install pip         XON12170       Drainage         XON10270       ELS to pil         XON10270       ELS to pil         XON10270       ELS work         XON12390       ELS work         XON10730       Mobilizatic         XON10730       Mobilizatic         XON10750       Pre-drill &         XON10750       Pre-drill &         XON10750       Pre-drill &         XON10552       ELS work         XON20910       Construction         XON20670       ELS to RI         XON20910       Construction Xorks in Slope C3 (Portion I)         XON20670       ELS to RI         XON20910       Construction Xorks in Slope C3 (Portion I)         XON20670       ELS to RI         XON20170       Fabricatic         XON20170       Fabricatic         XON20170       Construct         XON20170       Construct         XON20170       Construct         XON21010       Utilities &         XON21650D       Construct         XON21650G       (NCE112         XON21650G       (NCE112         XON21650F	tall pipe pile wall ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) iblization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 team S works for construct pile cap (FE1-PC1b, 32m, 1m/d) 2 (RIW2) rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	60 72 59 24 90 12 42 300	22-May-21 04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	02-Aug-21 28-Aug-21 13-Sep-21
D00197)     Design Lutilization of PT 12 ar 11 has 14	20N12170         Drainage           20N10270         ELS to pil           20N10270         ELS to pil           20N10270         ELS to pil           20N10730         Mobizatic           20N10730         Mobizatic           20N10730         Mobizatic           20N10730         Mobizatic           20N10750         Pre-drill &           20N11552         ELS work           20N11552         ELS work           20N10750         Pre-drill &           20N11552         ELS work           20N11552         ELS work           20N20650A         (NCE067           20N20650A         (NCE067           20N20670         ELS to R           20N20670         ELS to R           20N20670         ELS to R           20N20930         Constructic           20N20930         Constructic           20N20930         Constructic           20N20930         Constructic           20N20930         Constructic           20N21010         Utilities &           20N21050         Constructic           20N21650D         Constructic           20N21650G         (NCE112	ainage & utilities works (RWC2 type 1a, 1, 2) S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) ublization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 team S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	72 59 24 90 12 42 300	04-Jun-21 07-Jul-21 21-Jul-21 22-Jul-21	28-Aug-21 13-Sep-21
Other State <td>CON10270         ELS to pi           CON10270         ELS to pi           CON11550         Construct           CON12390         ELS work           CON10730         Mobilizatic           CON10730         Mobilizatic           CON11332         Construct           CON11552         ELS work           CON20650A         (NCE067)           CON20650A         (NCE067)           CON20650A         Construct           CON20900         Construct           CON20170         Fabricatic           CON20170         Fabricatic           CON20170         Fabricatic           CON20190         Construct           CON21960         ELS for Store           CON21961         Further ut           CON21650G         (NCE112           CON21650G         (NCE1212           CON21650F         (EWN0632           CON21650F         (EWN0632           CON21650F         (EWN0632           CO</td> <td>S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works &amp; construct subway footing (KS27 east side) ublization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill &amp; construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td> <td>59 24 90 12 42 300</td> <td>07-Jul-21 21-Jul-21 22-Jul-21</td> <td>13-Sep-21</td>	CON10270         ELS to pi           CON10270         ELS to pi           CON11550         Construct           CON12390         ELS work           CON10730         Mobilizatic           CON10730         Mobilizatic           CON11332         Construct           CON11552         ELS work           CON20650A         (NCE067)           CON20650A         (NCE067)           CON20650A         Construct           CON20900         Construct           CON20170         Fabricatic           CON20170         Fabricatic           CON20170         Fabricatic           CON20190         Construct           CON21960         ELS for Store           CON21961         Further ut           CON21650G         (NCE112           CON21650G         (NCE1212           CON21650F         (EWN0632           CON21650F         (EWN0632           CON21650F         (EWN0632           CO	S to piling foundation pile cap (RWC2 type 5) instruct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team) S works & construct subway footing (KS27 east side) ublization works for socket H-pile works (RWC2 type 3) instruct CT5 Type 2 piling foundation (21nos, 2d/no, 1 team) e-drill & construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 tearr S works for construct pile cap (FE1-PC1b, 32m, 1m/d) <b>2 (RIW2)</b> rtion B) CE067) Temporary works design change due to unforeseen gorund conditi	59 24 90 12 42 300	07-Jul-21 21-Jul-21 22-Jul-21	13-Sep-21
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number Name in Source 12 (Proven Wild and Provides and Universe Mithage)         199         1999 <t< td=""><td>Onstruction Works in Slope C3 (Portion 20020650A         (NCE067)           20020650A         (NCE067)           20020670         ELS to R<sup>1</sup>           20020670         ELS to R<sup>1</sup>           20020930         Construction           20020170         Fabricatic           20020170         Construction           20021960         ELS tor S           20021961         Further u           20021650G         Construction           20021650G         (NCE112           20021650F         (EWN066           20021650F         (EWN066           20021640         Predrill &amp;           20021641         Predrill &amp;           20021641         Construction Works           20021730         Construction Struction Struction Works           20030870         Construction Struction Struction Works           200303870         Construction Struction Structi</td><td>rtion B) CE067) Temporary works design change due to unforeseen gorund conditi</td><td></td><td>-</td><td></td></t<>	Onstruction Works in Slope C3 (Portion 20020650A         (NCE067)           20020650A         (NCE067)           20020670         ELS to R <sup>1</sup> 20020670         ELS to R <sup>1</sup> 20020930         Construction           20020170         Fabricatic           20020170         Construction           20021960         ELS tor S           20021961         Further u           20021650G         Construction           20021650G         (NCE112           20021650F         (EWN066           20021650F         (EWN066           20021640         Predrill &           20021641         Predrill &           20021641         Construction Works           20021730         Construction Struction Struction Works           20030870         Construction Struction Struction Works           200303870         Construction Struction Structi	rtion B) CE067) Temporary works design change due to unforeseen gorund conditi		-	
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000001         0 construct Wang Y close of the set of th	Construct         Construct           CON20910         Construct           CON20670         ELS to RV           CON20930         Construct           CON20700         Fabricatic           CON20790         Construct           CON21010         Utilities &           Onstruction Noise Semi-Enclosure SE2 (         Construct           CON21960         ELS for S           CON21961         Further u           CON21962         Construct           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE1130)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21660F         (EWN063)           CON21660F         Construction Vorks           CON21964         Predrill &           CON21730         Construction Vorks           CON30654         (EWN 50)           CON30654         (EWN 50)           CON30300         Road wo           CON31310         Utilities wo           CON30350         Construction works		78	17-Dec-20 A	03-Jun-21
CMC001         E.S. B. KV bay is buy is buy into any	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
ObservedConsume RW way if subsy if solar (1-strong)4/211 Jun 2131 Jul 21ObservedOranaue RW way if subsy if solar (1-strong)6/62 Sub-2111 Sub-22ObservedOranaue RW way if subsy if solar (1-strong)000 Sub-22ObservedOranaue RW way if subsy if solar (1-strong)000 Sub-22ObservedDistance RW way if subsy if solar (1-strong)000 Sub-22ObservedDistance RW way if subsy if solar (1-strong)000 Sub-22ObservedOranaue RW way if subsy if solar (2-strong)000 Sub-22ObservedOranaue RW way if subsy if solar (2-strong)000 Sub-22ObservedOranaue RW way if subsy if solar (2-strong)000ObservedOranaue RW way if subsy if solar (2-strong)000ObservedOranaue RW way if subsy if solar (2-strong)000ObservedOranaue RW way if subsy if solar (2-strong)0 <td>Construct         Construct           CON20170         Fabrication           CON20170         Fabrication           CON20790         Construct           CON21010         Utilities &amp;           onstruction Noise Semi-Enclosure SE2 (         Construct           CON21960         ELS for S           CON21961         Further ut           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE130)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21690         Excavate           CON21700         Construct           CON21710         Construct           CON21730         Construct           CON30654         (EWN 50)           CON30870         Construct           CON3130         Road wo           CON3130         Slope wo           CON30350         Construct</td> <td></td> <td></td> <td>•</td> <td></td>	Construct         Construct           CON20170         Fabrication           CON20170         Fabrication           CON20790         Construct           CON21010         Utilities &           onstruction Noise Semi-Enclosure SE2 (         Construct           CON21960         ELS for S           CON21961         Further ut           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE130)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21690         Excavate           CON21700         Construct           CON21710         Construct           CON21730         Construct           CON30654         (EWN 50)           CON30870         Construct           CON3130         Road wo           CON3130         Slope wo           CON30350         Construct			•	
D002070         Rakkation 4/8 temport - short gluppe stort         70         14-Ju21         219-09-21           D002070         UBles 6 daning words all Yothop 16 by 3 tobs /3         30         0.4-Ju21         149-09-21           D002070         UBles 6 daning words all Yothop 16 by 3 tobs /3         30         0.4-Ju21         0.9-Ove21           D002100         Exb trace densing 8 (1-10 tobs /21)         42         2-Ju21 /4         0.9-Ove21           D002101         Fundamic densing 8 (1-10 tobs /21)         72         2-Ju21 /4         2-Ju21 /4         0.9-Ove21           D002102         Commutch [10 tobs /21)         73         0.9-Uv21 /4         0.9-Uv21         0.9-Uv21           D002102         Commutch [10 tobs /21)         710         0.9-Uv21         0.9-Uv21         0.9-Uv21           D002102         Commutch [10 tobs /21)         710         0.9-Uv21         0.9-Uv21         0.9-Uv21           D002102         Commutch [10 tobs /21)         710         0.9-Uv21         0.9-Uv21         0.9-Uv21           D002102         Commutch [10 tobs /21)         710         0.9-Uv21         0.9-Uv21         0.9-Uv21           D002102         Commutch [10 tobs /21)         710         0.9-Uv21         0.9-Uv21         0.9-Uv21           D002102	CON20170         Fabrication           CON20790         Construct           CON20790         Construct           CON21010         Utilities &           CONSTRUCTION Noise Semi-Enclosure SE2 (         CON21960           CON21960         ELS for S           CON21961         Further ut           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE112)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON2160F         (EWN063)           CON2160F         Construct           CON21600         Excavate           CON21630         Construct           CON2164         Predrill &           CON21730         Construct           CON30654         (EWN 50)           CON30870         Construct           CON3130         Road wo           CON31330         Slope wo           CON30350         Construct	· ·			
SXXXVP0         Constant RNV tays busy 13 base (-J0m)         66         24-J421         11-0-0-21           Ox02100         Utbes domina works of Works 10-000         23-J60-21         04-00-221           Ox02100         L.5/n SZ (J0m) 13.0 by 21         23-J60-21         04-00-221           Ox02100         Contraction (Birls 50-000)         72         23-J60-21         25-J60-21         25-J60-21           Ox02100         Contracting birls JSZ J0m 100, 130 by 21         030         22-J60-21         27-J60-21         27-J60-21           Ox02100         Contracting birls JSZ J0m 100, 130 by 21         030         22-J60-21         27-J60-21         27-J60-21 </td <td>CON20790         Construct           CON21010         Utilities &amp;           CONSTRUCTION Noise Semi-Enclosure SE2 (         CON21960           CON21960         ELS for S           CON21961         Further utilities &amp;           CON21961         Further utilities &amp;           CON21961         Construct           CON21962         Construct           CON21650G         (NCE112)           CON21650H         (NCE130)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21690         Excavate           CON21964         Predrill &amp;           CON21730         Construct           CON30654         (EWN 50)           CON30870         Construct           CON3130         Road wo           CON30150         Slope wo           CON3350         Construct</td> <td></td> <td></td> <td></td> <td></td>	CON20790         Construct           CON21010         Utilities &           CONSTRUCTION Noise Semi-Enclosure SE2 (         CON21960           CON21960         ELS for S           CON21961         Further utilities &           CON21961         Further utilities &           CON21961         Construct           CON21962         Construct           CON21650G         (NCE112)           CON21650H         (NCE130)           CON21650F         (EWN063)           CON21650F         (EWN063)           CON21690         Excavate           CON21964         Predrill &           CON21730         Construct           CON30654         (EWN 50)           CON30870         Construct           CON3130         Road wo           CON30150         Slope wo           CON3350         Construct				
CXC2100         Latiss: A tanaga wext as Petron (Bay 19 loay 4)         400         0-45-02-1           CXC2100         LLS to SE2 (Bay 10 Bay 21)         460         25-3m-21 A         25-3m-22 A           CXC2100         LLS to SE2 (Bay 10 Bay 21)         460         25-3m-21 A         25-3m-22 A           CXC2100         Contract ping for SE2 (Bay 10 Bay 21)         550         0-47-69-21 A         25-3m-22 A           CXC2100         Contract ping for SE2 (Bay 10 Bay 21)         550         0-47-69-21 A         25-3m-22 A           CXC2100         Contract ping for SE2 (Bay 10 Bay 21)         500         25-3m-22 A         25-3m-22 A           CXC2100         MCE 120 bottome townifer (C1202 TD 20-3020/21) n=NIV X NB         1         29-3m-22 A         25-3m-22 A           CXC2160F         MCE 120 bottome townifer (C1202 TD 20-3020/21) n=NIV X NB         3         29-3m-22 A         10-3m-22 A           CXC2160F         MCE 100 bottome townifer (C1202 TD 20-3020 A) NB A         4         0-3m-22 A         10-3m-22 A           CXC2160F         MCE 100 bottome townifer (C1202 TD 20-3020 A) NB A         10-3m-22 A         10-3m-22 A           CXC2160F         MCE 100 bottome townifer (C120 TD 20-202 A) NB A         10-3m-22 A         10-3m-22 A           CXC2160F         MCE 100 bottome townifer (C1200 TD 20-202 A         10-3m	CON21010         Utilities &           construction Noise Semi-Enclosure SE2 (         CON21960         ELS for S           CON21961         Further u           CON21650D         Construct           CON21650D         Construct           CON21962         Construct           CON21650G         (NCE130           CON21650F         (EWN063           CON21650F         (EWN063           CON21670         Instal she           CON21690         Excavate           CON21690         Construct           CON21690         Construct           CON21690         Excavate           CON2170         Construct           CON21730         Construct           CON30654         (EWN 50           CON30310         Utilities we           CON31330         Road wo           CON30150         Slope wo           CON30350         Construct				•
Dist         Dist         Pail         Pail <th< td=""><td>Construction Noise Semi-Enclosure SE2 ( CON21960         ELS for S           CON21961         Further u           CON21650D         Construct           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE130)           CON21650F         (EVIN066)           CON21670         Instal she           CON21690         Excavate           CON21690         Excavate           CON21690         Construct           CON21670         Instal she           CON21690         Excavate           CON2170         Construct           CON21730         Construct           CON30870         Construct           CON30870         Construct           CON3130         Road wo           CON3150         Slope wo           CON3050         Construct</td><td>nstruct RW bay 9 to bay 13 base (L=30m)</td><td>66</td><td>24-Jul-21</td><td>11-Oct-21</td></th<>	Construction Noise Semi-Enclosure SE2 ( CON21960         ELS for S           CON21961         Further u           CON21650D         Construct           CON21650D         Construct           CON21650G         (NCE112)           CON21650G         (NCE130)           CON21650F         (EVIN066)           CON21670         Instal she           CON21690         Excavate           CON21690         Excavate           CON21690         Construct           CON21670         Instal she           CON21690         Excavate           CON2170         Construct           CON21730         Construct           CON30870         Construct           CON30870         Construct           CON3130         Road wo           CON3150         Slope wo           CON3050         Construct	nstruct RW bay 9 to bay 13 base (L=30m)	66	24-Jul-21	11-Oct-21
SDA:1990         B.4.5r (52 (spr) 30 (bpr) (1)         44         24.Mm/24         24.Mm/24           SDA:1910         Rufner (inder obras (bpr) 30 (bpr) 21)         72         25.Mm/24         27.Mm/24           SDA:1910         Construicing fig (102 Big 44 (bpr) 22)         55         0.4f-66.274         27.Mm/24           SDA:1910         Construicing fig (101 Big 201 (201 (201 MW2N))         10         25.Mm/24         25.Mm/24           SDA:1910         Montani Web Inter (12.0221 (201 RW2N))         3         25.Mm/24         10.Mm/24           SDA:1910         Inter (12.0221 (201 RW2N))         3         25.Mm/24         10.Mm/24           SDA:1910         Inter (12.0221 (201 RW2N))         3         25.Mm/24         10.Mm/24           SDA:1910         Inter (12.0221 (201 RW2N))         4         0.2.Mm/24         10.Mm/24           SDA:1910         Encode & install barel instapi (17.H S2 Big Va Big V2, L-10m)         48         0.2.Mm/24         10.Mm/24           SDA:1910         Constant NB Inter (12.0221 NW37, MM2A)         72         12.Mm/24         10.Mm/24           SDA:1910         Constant ND Ige (12.NW167, MM2A)         MONL         10.Mm/24         10.Mm/24           SDA:1910         Constant ND Ige (12.NW167, MM2A)         MONL         10.Mm/24         10.Mm/24	CON21960         ELS for S           CON21961         Further u           CON21961         Further u           CON21650D         Construct           CON21650G         (NCE112           CON21650G         (NCE130           CON21650H         (NCE130           CON21650F         (EWN063           CON21670         Instal she           CON21690         Excavate           CON21964         Predril&           CON21730         Construct           CON21730         Construct           CON30654         (EWN 50           CON30870         Construct           CON3130         Road wo           CON3150         Slope wo           CON30350         Construct	lities & drainage works at Portion B (bay 3 to bay 8)	30	02-Aug-21	04-Sep-21
SDC/1960         LLS tot Siz 4(gr) 10 bay (2)         44         25 Auno 24         25 Auno 24 <th< td=""><td>CON21960         ELS for S           CON21961         Further u           CON21961         Further u           CON21650D         Construct           CON21650G         (NCE112           CON21650G         (NCE130           CON21650F         (EWN063           CON21650F         (EWN063           CON21670         Instal she           CON21690         Excavate           CON21964         Predril&amp;           CON21710         Construct           CON21730         Construct           CON30654         (EWN 50           CON30870         Construct           CON3130         Road wo           CON30150         Slope wo           CON30350         Construct</td><td>SE2 (Portion C)</td><td>206</td><td>28-Jan-21 A</td><td>09-Oct-21</td></th<>	CON21960         ELS for S           CON21961         Further u           CON21961         Further u           CON21650D         Construct           CON21650G         (NCE112           CON21650G         (NCE130           CON21650F         (EWN063           CON21650F         (EWN063           CON21670         Instal she           CON21690         Excavate           CON21964         Predril&           CON21710         Construct           CON21730         Construct           CON30654         (EWN 50           CON30870         Construct           CON3130         Road wo           CON30150         Slope wo           CON30350         Construct	SE2 (Portion C)	206	28-Jan-21 A	09-Oct-21
Cold 21001         Futher values downen Bay 130 Bay 21)         72         28-Jun 24         28-J	CON21961         Further u           CON21650D         Construct           CON21650G         (NCE112           CON21650G         (NCE130           CON21650H         (NCE130           CON21650F         (EVIN066           CON21670         Instal she           CON21690         Excavate           CON21690         Excavate           CON21964         Predrill &           CON2170         Construct           CON21710         Construct           CON21730         Construct           CON30654         (EVN 50           CON30870         Construct           CON3130         Road wo           CON30150         Slope wo           CON3050         Construct	· · ·	48	28-Jan-21 A	25-May-21
Ocheck program         Openator	CON21650D         Construct           CON21962         Construct           CON21650G         (NCE112           CON21650G         (NCE130           CON21650F         (EVN066           CON21670         Install she           CON21690         Excavate           CON21690         Excavate           CON21670         Construct           CON21690         Excavate           CON21710         Construct           CON21730         Construct           Construction Works         Location 3 (RI           Construction Works         Construct           CON30654         (EWN 50           CON31310         Utilities we           CON3050         Slope wo           CON30350         Construct				
Chartary Ling Jandom SE2 (Bay 12 Bay 21)00080	CON21962         Construct           CON21650G         (NCE112           CON21650H         (NCE130           CON21650F         (EWN063           CON21650F         (EWN063           CON21670         Install she           CON21690         Excavate           CON2164         Predrill &           CON21670         Construct           CON2164         Predrill &           CON21730         Construct           CON21730         Construct           CON30654         (EWN 50           CON30654         Construct           CON30654         Construct           CON30654         Construct           CON30654         Construct           CON30654         Sope wo           CON30150         Slope wo           CON30350         Construct				
Ch21E102         (NCE112) submarry water (71/2021 to 202021) on NUX NB         1         28 May 21         O 1 Jun 21           Ch21E0504         (NCE112) submarry water (71/2021 to 202021) on NUX NB         3         29 May 21         10 Jun 21           Ch21E050F         (EVNN06) Strongen of morter & Argregons subple 8 NV2         15         (27 Jun 21         11 Sub 21           Ch21E050F         (EVNN06) Strongen of morter & Argregons subple 8 NV2         16         (27 Jun 21         11 Sub 21           Ch21E050F         (EVNN06) Strongen of morter & Argregons subple 8 NV2.1 L=110m)         48         (27 Jun 22)         (26 Hu2 1)         (26 Hu2 1)           Ch21E1050         Constant Rb Jose can (CFA SE2 Bay 4 Bay 12 L=110m)         48         (21 Jun 22)         (26 Hu2 2)         (26 Hu2 1)           Ch21E120         Constant Rb Jose can (CFA SE2 Bay 4 Bay 12 L=110m)         48         (21 Jun 22)         (26 Hu2 2)         (26 Hu2 2)         (26 Hu2 2)           Ch21E120         Constant Rb Jose can (CFA SE2 Bay 4 Bay 12 L=110m)         40         (23 Jun 21)         (19 Sub 21)         (26 Hu2 2)         (	CON21650G         (NCE112           CON21650H         (NCE130           CON21650F         (EWN063           CON21670         Instal she           CON21670         Instal she           CON21670         Instal she           CON21690         Excavate           CON21964         Predrill &           CON21710         Constructor           CON21730         Constructor           Construction Works         Constructor           CON30654         (EWN 50           CON30654         Constructor           CON3130         Road wo           CON30350         Constructor				•
CDR21601         (NCE130) functional value (CIA 2021 to 2040/21 on RMV2 MB         3         29.499 / 20.4	CON21650H         (NCE130           CON21650F         (EWN063           CON21670         Instal she           CON21690         Excavate           CON21964         Predrill &           CON21730         Construct           CON30654         (EWN 50           CON30654         (EWN 50           CON30870         Construct           CON3130         Road wo           CON3050         Slope wo           CON3050         Construct			•	
CXX21606         EVMN080 Shortage of coverents 4 aggregate seeple 98 MV2         16         02.421         19.421           CXX21607         lestable talece ple (CTA, SE2 Bays 4 Bay 22110m)         46         02021         06021           CXX21607         Constaus Rbg inc	CON21650F         (EWN063           CON21670         Install she           CON21690         Excavate           CON21964         Predrill &           CON21710         Construct           CON21730         Construct           CON30654         (EWN 50           CON30870         Construct           CON31310         Utilities w           CON3150         Slope wo           CON3050         Construct	, , , ,			
CON21670         Install even plas (CT4, SR2 Explay to Bay) 12, 230m struit, 1tem)         44         02, 3, 21,21         25, 40,21         2	CON21670     Install she       CON21690     Excavate       CON21964     Predrill &       CON21710     Construct       CON21730     Construct       CONSTRUCTION     Construct       CON30654     (EWN 50       CON30870     Construct       CON3130     Road wo       CON3150     Slope wo       CON30550     Construct	CE130) Inclement weather (21/3/2021 to 20/4/2021) on RIW2 NB		29-May-21	
CDV31690         Excernet A trueil lateral lager (CT4, SE2 Bayl to Bayl2, L=110m)         48         C0-Ju321         Q6-Ju321         Q6-Ju321           CDV31694         Pendit & Construct NB pie cag: (CT4, SE2 Bayl to Bayl2, L=110m)         48         T3.Ju121         Q6-Sep-21           CDV31703         Construct NB pie cag: (CT4, SE2 Bayl to Bayl2, L=110m)         48         T3.Ju121         Q6-Sep-21           CDV31703         Construct NB to beam (CT4, SE2 Bayl to Bayl2, L=110m)         48         T3.Ju121         10-Sep-21           CDV31704         Construct NB to beam (CT4, SE2 Bayl to Bayl2, L=110m)         48         T3.Ju121         10-Sep-21           CDV31705         Construct NB to beam (CT4, SE2 Bayl to Bayl2, L=110m)         48         T3.Ju121         10-Sep-21           CDV30504         (CVN S0, EVN67, EVN63)         More To TT4         T4.Ju124         10-Su22           CDV30504         (CVN S0, EVN67, EVN63)         More To TT4         T5.Lu124         0-Su124           CDV31300         Construct NWD1 bay cong Learns)         G0         G2-Ju221         13-Ju221           CDV31300         Construct NWD1 bay a bay 14 Jue (Z Learns)         G0         G3-Jun-21         13-Ju221           CDV31300         Construct NWD1 bay a bay 14 Jue (Z Learns)         G0         G3-Jun-21         13-Ju221	CON21690         Excavate           CON21964         Predrill &           CON21710         Construct           CON21730         Construct           Construction Works         Location 3 (RI           Construction Works         Construct           CON30654         (EWN 50           CON30870         Construct           CON31310         Utilities with construct           CON30150         Slope wo           CON30350         Construct	WN069) Shortage of concrete & aggregate supply @ RIW2	15	02-Jun-21	19-Jun-21
CDN2 994         Pedif8 construct flag to Bay 12: L110m)         84         02:Jk211         09:Ok211           CDN2170         Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         13:Jk211         10:Sep211           CON2170         Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         23:Jk211         10:Sep211           Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         23:Jk211         10:Sep211           Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         23:Jk211         10:Sep211           Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         23:Jk211         10:Sep211           Construct Ng bacan (CT4, SE2 Bay 4b Bay 21: L110m)         48         23:Jk211         10:Sep211           Construct Ng bacan (CT4) SE2 Bay 4b Bay 21: L110m)         755         01:Jkx02A         10:Sep211           CONS0570         Construct Ng bacan (CH10 CH115)         72         2:Sep214         03:Jkn21         13:Jkap 21           CONS0570         Construct Ng D1 (gap 2: Algo 2: Gama)         60         03:Jkn21         13:Jkap 21         13:Jkap 21           CONS0570         Construct Ng D1 (gap 2: Algo 2: Gama)         60         03:Jkn21         13:Jkap 21         10:Sep211           CONS0570         Construct Ng D1 (gap 2: Algo 2: Gama) <td< td=""><td>CON21964         Predrill &amp;           CON21710         Construct           CON21730         Construct           coad Improvement Works Location 3 (RI         Construction 3 (RI           Construction Works         Construct           CON30654         (EWN 50           CON30870         Construct           CON31310         Utilities with construct           CON30150         Slope wo           CON30350         Construct</td><td>tall sheet piles (CT4, SE2 Bay4 to Bay12; 230m 5m/d, 1 team)</td><td>48</td><td>21-Jun-21</td><td>16-Aug-21</td></td<>	CON21964         Predrill &           CON21710         Construct           CON21730         Construct           coad Improvement Works Location 3 (RI         Construction 3 (RI           Construction Works         Construct           CON30654         (EWN 50           CON30870         Construct           CON31310         Utilities with construct           CON30150         Slope wo           CON30350         Construct	tall sheet piles (CT4, SE2 Bay4 to Bay12; 230m 5m/d, 1 team)	48	21-Jun-21	16-Aug-21
CON21710         Construct NB pie cap (CT4 SE2 Bay4 to Bay12, L=110m)         48         13, Jul 21         0.66 Sep 21           CON21730         Construct NB is beam (CT4, SE2 Bay4 to Bay12, L=110m)         48         23, Jul 21         16-Sep 21           CON21730         Construct NB is beam (CT4, SE2 Bay4 to Bay12, L=110m)         48         23, Jul 21         16-Sep 21           CON20561         (EM) S0. ENNS2, ENNS2, ENNS3, LPNCing WSD confirm SMPR water         775         01-Jun 20A         06-Jul 21           CON30564         (EM) S0. ENNS2, ENNS3, LPNCing WSD confirm SMPR water         72         15-Sep 20A         03-Jun 21           CON30570         Construct Ng in the site water and (Pd to CH115)         72         23-Apr 21A         03-Jun 21           CON30580         Construct Ng is the site p1 (reage 3, 40% complete)         72         23-Apr 21A         20-Jul 21           CON30590         Construct NWD1 (bay 8 to bay 14) pic cap (24 erms)         60         05-Jun 21         13-Jul 21           CON30590         Construct RWD1 (bay 8 to bay 14) wal (24 erms)         60         03-Jun 21         13-Jul 21           CON30590         Construct RWD1 (bay 8 to bay 14) wal (24 erms)         60         03-Jul 21         13-Jul 21           CON30590         Construct RWD1 (bay 8 to bay 14) wal (24 erms)         60         03-Jul 21	CON21710 Construct CON21730 Construct CON21730 Construct CON21730 Construct CON20654 (EWN 50 CON30654 (EWN 50 CON30870 Construct CON31310 Utilities w CON31330 Road wo CON3130 Slope wo CON30150 Slope wo CON30350 Construct	cavate & install lateral support (CT4, SE2 Bay4 to Bay12; L=110m)	48	02-Jul-21	26-Aug-21
CON21710         Construct NB gine cap (CT4, SE2 Bayk to Bay/12, L=110m)         48         13Jul21         06-Sap-21           CON21730         Construct NB is beam (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB is beam (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         755         01Jun20A         100-Cs22           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         72         15.Sap-20A         03Jun21           Construct NB (CT4, SE2 Bayk to Bay/12, L=110m)         60         12.4un21         14.5un21           CON3050         Construct NB (CT4) (SE3 bayk to	CON21710 Construct CON21730 Construct CON21730 Construct CON21730 Construct CON20654 (EWN 50 CON30654 (EWN 50 CON30870 Construct CON31310 Utilities w CON31330 Road wo CON3130 Slope wo CON30150 Slope wo CON30350 Construct	edrill & construct piling fdn SE2 (Bay 13 to Bay 21)	84	02-Jul-21	09-Oct-21
CON2179         Construct NB is beam (CT4, SE2 Bay4 b Bay12, L=110m)         48         23-Jul/21         16 6 sp.21           Cool Inprovement Works Location 3 (IW3)         750         01-Jun-20A         100-Oct-22           CON20564         (EWN 50, EWN57, EWN57), JV Pending WED contim SMPR waterr         770         01-Jun-20A         06-Jul/21           CON20564         (EWN 60, EWN52, EWN57, EWN59), JV Pending WED contim SMPR waterr         772         01-Jun-20A         06-Jul/21           CON3070         Construct dip red road works dinage works divergent (CH0 to CH115)         722         22-Feb-21A         03-Jun-21           CON30300         Road works (CH0 to CH115)         60         12-Mar-21A         18-Jun-21           CON30300         Construct RWD1 (bay 8 to bay 14) and exp (2 tearrs)         60         05-May-21A         16-Jul/21           CON30300         Construct RWD1 (bay 8 to bay 14) and 12 tearrs)         60         03-Jun-21         13-Jul/221           CON30300         Construct RWD1 (bay 8 to bay 14) and 12 tearrs)         60         03-Jun-21         13-Jul/221           CON30300         Construct RWD1 (bay 8 to bay 14) and 12 tearrs)         60         03-Jul-21         13-Jul/221           CON30300         Construct RWD1 (bay 8 to bay 14) and 12 tearrs)         60         03-Jul/21         13-Jul/221 <tr< td=""><td>CON21730 Construct oad Improvement Works Location 3 (RI Construction Works CON30654 (EWN 50 CON30870 Construct CON3130 Utilities with CON31330 Road wo CON30150 Slope wo CON30350 Construct</td><td></td><td>48</td><td></td><td></td></tr<>	CON21730 Construct oad Improvement Works Location 3 (RI Construction Works CON30654 (EWN 50 CON30870 Construct CON3130 Utilities with CON31330 Road wo CON30150 Slope wo CON30350 Construct		48		
Bad Improvement Works Location 3 (RIW3)         755         01-Jun 20A         100-Dck22           Onstruction Works         FVN 90, EVN82, EVN857, EVN850, JV Pending WSD confim SMPR vaterr         177         01-Jun 20A         06-Jul 21           D0N30664         CEVN 90, EVN82, EVN857, EVN850, JV Pending WSD confim SMPR vaterr         177         01-Jun 20A         06-Jul 21           D0N3070         Construct sip road 4 road works         72         15-Sep 20A         03-Jun 21         03-Jun 21           D0N3050         Construct RVD1 (Day 8 bas 14) Bue cap (2 tarms)         60         12-Jun 21A         18-Jun 21         04-Jul 22           D0N3050         Construct RVD1 (Day 8 bas 14) Bue cap (2 tarms)         60         05-Jun 21         13-Jun 21         04-Jul 21           D0N3070         Construct RVD1 (Day 8 bas 14) Hual (2 tarms)         60         05-Jun 21         13-Jun 21         13-	Construction Works         Cocation 3 (RI           Construction Works         Construction           CON30654         (EWN 50           CON30870         Construction           CON31310         Utilities with construction with the second withe second withe second with the second withe second with the seco				•
Onstruction Works         755         01-Jun-20A         00-Oct-22           ON308654         (EVN 50, EVNS2, EVNS9).// Pendrg W5D ontrm SVPR water         1/7         01-Jun-20A         06-Jul-21           ON30870         Construct all proof 4 nead works         72         15-Sep-20A         03-Jun-21           ON31310         Uilities works, drahage works & watermain (CH to CH115)         72         22-Feb-21A         03-Jun-21           ON31300         Road works (CH to CH115)         72         22-Apri-21A         18-Jun-21           ON30300         Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)         60         05-Jun-21         18-Jun-21           ON30300         Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)         60         05-Jun-21         18-Jun-21           ON30300         Construct RWD1-Type 4 pile cap (2 teams)         60         05-Jun-21         13-Jung-21           ON30300         Construct RWD1-Type 4 pile cap (2 teams)         60         05-Jun-21         13-Jung-21           ON31000         Instal satisty fencing, from haul cased a hoarding (CH115 to CH275)         6         19-Jun-21         19-Jun-21           ON30400         Construct RWD1-Type 4 (Pile cap (CH14-CH160) by UIG uilities duds & bachdfil (CH145 CH275)         6         07-Jul-21         19-Sup-21           ON30450 <t< td=""><td>Onstruction Works           CON30654         (EWN 50           CON30870         Construction           CON31310         Utilities with the second work of the second work</td><td></td><td></td><td></td><td></td></t<>	Onstruction Works           CON30654         (EWN 50           CON30870         Construction           CON31310         Utilities with the second work of the second work				
SDN30654         (EWN 50, EWN 57, EWN 58), JV Pending WSD confirm SMPR waterr         177         01-Jun-20A         06-Jul-21           CON30070         Construct sip road 4 road works         72         15-Sep-20A         03-Jun-21           CON30170         Dillisios works, drianage works & watermain (CH 10b CH 115)         72         22-Feb-21A         03-Jun-21           CON30150         Spere works at sope D1 (stage 3.40% completed)         72         22-Apc-21A         18-Jun-21           CON30350         Construct RWD1 (bag 8 to bay 14) pie cap (2 teams)         60         05-Jun-21         13-Jug-21           CON30370         Construct RWD1 (bag 8 to bay 14) wal (2 teams)         60         05-Jun-21         13-Jug-21           CON30370         Construct RWD1 (bag 8 to bay 14) wal (2 teams)         60         05-Jun-21         13-Jug-21           CON30370         Construct RWD1 (bag 8 to bay 14) wal (2 teams)         60         05-Jun-21         13-Jug-21           CON30370         Construct RWD1 (bag 8 to bay 14) wal (2 teams)         60         05-Jun-21         13-Jug-21           CON3170         Road realgement & Thomodification on SWPR         60         05-Jul-21         10-Sep-21           CON3050         Construct RWD1-Type 4 Jeace (CH144-CH160), Ifon)         60         07-Jul-21         10-Sep-21	CON30654         (EWN 50           CON30870         Construct           CON31310         Utilities with the second se	3 (RIW3)			
CON30870         Construct slip road 4 road works         72         15-Sep-20.A         03-Jun-21           CNN3130         Utilies works, drainage works & watermain (CH to CH115)         72         22-Feb-21 A         03-Jun-21           CNN3130         Road works (CH to CH115)         60         12-Mar-21 A         18-Jun-21           CNN3050         Stope works at stope D1 (stage 3, 40% completed)         72         23-Apr-21 A         20-Jul-21           CNN3050         Construct RWD1 (bay 8 to bay 14) wall (2 tearns)         60         05-May-21 A         13-Jul-21           CNN30370         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Jul-21           CNN3130         Road re-alignment & TTA modification on SMPR         30         04-Jun-21         10-Jul-21           CNN3100         Install stelly fending, from haul road & hoadring (CH115 to CH275)         6         19-Jun-21         25-Jun-21           CNN3050         Construct RWD1-Type 4 (JH4-CH160, 16m)         60         07-Jul-21         14-Sep-21           CNN3050         Construct RWD1-Type 4 (JH4-CH160, 16m)         60         07-Jul-21         14-Sep-21           CNN3050         Construct RWD1-Type 4 (JH4-CH160, 16m)         60         07-Jul-21         14-Sep-21           CNN3050         Construct R	CON30870         Construct           XON31310         Utilities with the second se		755	01-Jun-20 A	10-Oct-22
ONX0870         Construct slip road 4 road works         72         15-Sep-20.A         03-Jun-21           ONX1310         Utilies works, drainage works & watermain (CH to CH115)         72         22-Feb-21 A         03-Jun-21           ONX1310         Road works (CH to CH115)         60         12-Mar-21 A         18-Jun-21           ONX0150         Stope works at stope D1 (stage 3, 40% completed)         72         23-Apr-21 A         20-Jul-21           ONX0350         Construct RWD1 (bay 8 to bay 14) wal (2 earns)         60         05-May-21 A         16-Jul-21           ONX0350         Construct RWD1 Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           ONX0350         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           ONX1300         Read re-alignment & TIAmodification on SMPR         30         04-Jun-21         10-Jul-21           ONX0450         Construct RWD1-Type 4 (Pil-4C-H160) (Buy U/G utilities ductas & backfil         60         07-Jul-21         14-Sep-21           ONX0450         Construct RWD1-Type 4 (Pil-4C-H160) (Buy U/G utilities ductas & backfil         60         07-Jul-21         14-Sep-21           ONX0450         Construct RWD1-Type 4 (Pil-4C-H160) (Buy U/G utilities ductas & backfil         60         07-Jul-21         14-S	CON30870         Construct           CON31310         Utilities with construct           CON31330         Road woth construct           CON30150         Slope woth construct           CON30350         Construct	WN 50, EWN52, EWN57, EWN58) JV Pending WSD confirm SMPR waterr	177	01-Jun-20 A	06-Jul-21
ONN31310         Utilities works, drainage works & watermain (CH0 to CH115)         72         22-Feb-21 A         03-Jun-21           ONN31300         Road works (CH0 to CH115)         60         12-Mar-21 A         18-Jun-21           ONN30150         Stope works at stope D1 (tage 3, 40% completed)         72         23-Apr-21 A         20-Jul-21           ONN3050         Construct RWD1 (bag 8 to bay 14) yale cap (2 teams)         60         05-May-21 A         16-Jul-21           ONN3050         Construct RWD1 (bay 8 to bay 14) wal (2 teams)         60         03-Jun-21         13-Aug-21           ONN3050         Construct RWD1 (bay 6 to bay 14) wal (2 teams)         60         03-Jun-21         13-Aug-21           ONN3050         Construct RWD1 (bay 6 to bay 14) wal (2 teams)         60         03-Jun-21         10-Jul-21           ONN3050         Construct RWD1 (bay 6 to bay 14) wal (2 teams)         60         19-Jun-21         10-Jul-21           ONN3050         Construct RWD1 Type 4 Jul-15 to CH275)         6         19-Jun-21         10-Sep-21           ONN3050         Construct RWD1 Type 4 Jul-15 to CH275)         60         07-Jul-21         14-Sep-21           ONN3050         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         14-Sep-21           ONN30562         Const	CON31310     Utilities wi       CON31330     Road wo       CON30150     Slope wo       CON30350     Construct				
CON31330         Read works (CH0 to CH115)         60         12-Mar-21 A         18-Jun-21           CON30150         Stope works at stope D1 (stage 3, 40% completed)         72         23-Apr-21 A         20-Jul-21           CON30150         Construct RWD1 (bay 8 to bay 14) pie cap (2 tearns)         60         05-May-21 A         16-Jul-21           CON30370         Construct RWD1 (bay 8 to bay 14) pie cap (2 tearns)         60         03-Jun-21         13-Aug-21           CON30370         Construct RWD1-Type 4 pie cap (CH144-CH160.16m)         60         03-Jun-21         13-Aug-21           CON30370         Construct RWD1-Type 4 pie cap (CH144-CH160.15m)         60         04-Jun-21         10-Jul-21           CON30300         Instal safely fending, from haulroad & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) by U/G uitities ducts & backfill         60         07-Jul-21         10-Sep-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) by U/G uitities ducts & backfill         60         07-Jul-21         14-Sep-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) by U/G uitities ducts & backfill         60         07-Jul-21         16-Sep-22           CON30456         Construct Twin Fresh Watermain CH10 to CH100         160         07	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	•			
Stope works at slope D1 (stage 3, 40% completed)         72         23-Apr-21A         20-Jul-21           CON30350         Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)         60         05-May-21A         115-Jul-21           CON30370         Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)         60         03-Jun-21         13-Aug-21           CON30430         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           CON31730         Road re-aignment & TTA modification on SMPR         30         04-Jun-21         10-Jul-21           CON30400         Instal safety fencing, from hauroad & hoarding (CH115 to CH275)         60         25-Jun-21         25-Jun-21           CON3050         Construct RWD1-Type 4 (CH144-CH160) by UG uitilies ducts & backfill         60         03-Jul-21         14-Sep-21           CON3050         Construct RWD1-Type 4 (CH144-CH160) by UG uitilies ducts & backfill         60         07-Jul-21         14-Sep-21           CON3050         Construct RWD1 Type 4 (CH144-CH160) by UG uitilies ducts & backfill         60         07-Jul-21         14-Sep-21           CON30560         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         15-Jan-22           CON30466         Construct Twin Fresh Watermain CH50 to CH400 (EPD access)         180         07-Jul	CON30150 Slope wo CON30350 Construct				
CON30350         Construct RWD1 (bay 8 to bay 14) pile cap (2 teams)         60         05-May-21 A         16-Jul-21           CON30370         Construct RWD1 (bay 8 to bay 14) wal (2 teams)         60         03-Jun-21         13-Aug-21           CON30330         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           CON31730         Road re-alignment & Throdification on SMPR         30         04-Jun-21         10-Jul-21           CON31090         Instal safety fencing, from haulroad & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilites ducts & backfill         60         03-Jul-21         10-Sep-21           CON3050         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilites ducts & backfill         60         07-Jul-21         14-Sep-21           CON3050         Construct RWD1 Type 4 (CH144-CH160) lay U/G utilites ducts & backfill         60         07-Jul-21         16-Sep-21           CON3050         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         16-Sreb-22           CON30562         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         11-Feb-22           CON30562         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         180	CON30350 Construc				
CON30370         Construct RWD1 (bay 8 to bay 14) wal (2 teams)         60         03-Jun-21         13-Aug-21           CON30430         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           CON31030         Road re-algment & TTA modification on SMPR         30         04-Jun-21         10-Jul-21           CON31030         Instal safety fencing, from haul road & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/C utilities ducts & backfill         60         03-Jul-21         10-Sep-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/C utilities ducts & backfill         60         03-Jul-21         14-Sep-21           CON30450         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         15-Jan-22           CON30656         Construct Twin Fresh Watermain CH270 to CH320         184         07-Jul-21         16-Feb-22           CON30490         Drainage & utilities works (Day 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30490         Drainage & utilities works (They 4 Bitor and A CH320 to CH4300 (EPD access)         184         07-Jul-21         17-Sep-21           CON30490         Drainage & utilities works (Day 8 to bay 14)         60				· ·	
XON30430         Construct RWD1-Type 4 pile cap (CH144-CH160, 16m)         60         03-Jun-21         13-Aug-21           XON31730         Road re-alignment & TTA modification on SMPR         30         04-Jun-21         10-Jul-21           XON31090         Instal safety fencing, from haul road & hearding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           XON30430         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         26-Jun-21         04-Sep-21           XON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         14-Sep-21           XON30450         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         14-Sep-21           XON30650         Construct Twin Fresh Watermain CH20 to CH320         184         07-Jul-21         15-Jan-22           XON30662         Construct Twin Fresh Watermain CH270 to CH320         184         07-Jul-21         11-Feb-22           XON30662         Construct Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           XON30490         Drainage & utilities works (Type 4 RW)         60         10-Jul-21         17-Sep-21           XON30570         Drainage & tutilies works (Type 4 RW)         60         10-Jul-21	CON30370 Construct				
NON31730         Road re-alignment & TTA modification on SMPR         30         04-Jun-21         10-Jul-21           VON31090         Instal safety fencing, from haul road & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           VON31100         Trees feling (Sbpc D3, CH115 to CH275)         60         26-Jun-21         04-Sep-21           VON30400         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         10-Sep-21           VON30530         Drainage & utilities works (bay 1 to bay 7)         60         07-Jul-21         14-Sep-21           VON30500         Construct Twin Fresh Vatermain CH10 to CH50         120         07-Jul-21         15-Jan-22           VON30650         Construct Twin Fresh Vatermain CH270 to CH320         184         07-Jul-21         16-Feb-22           VON30652         Construct Twin Fresh Vatermain ACH320 to CH400 (EPD access)         180         07-Jul-21         17-Sep-21           VON30500         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           VON30500         Drainage & utilities works backfill (2 teams)         60         10-Jul-21         17-Sep-21           VON30500         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21				03-Jun-21	13-Aug-21
XON31090         Instal safety fencing, from haul road & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           XON31110         Trees feling (Sbpe D3, CH115 to CH275)         60         26-Jun-21         04-Sep-21           XON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         10-Sep-21           XON3050         Construct RWD Fresh Watermain CH10 to CH50         120         07-Jul-21         14-Sep-21           XON30656         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         15-Jan-22           XON30652         Construct Twin Fresh Watermain CH270 to CH320         184         07-Jul-21         11-Feb-22           XON30662         Construct Treish Watermain CH270 to CH320         180         07-Jul-21         11-Feb-22           XON30662         Construct Fresh Watermain CH270 to CH300         180         07-Jul-21         11-Feb-22           XON30670         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           XON30570         Drainage & utilities works (Type 4 RW)         60         10-Jul-21         17-Sep-21           XON3050         Construct RVD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21	CON30430 Construct	nstruct RWD1-Type 4 pile cap (CH144~CH160, 16m)	60	03-Jun-21	13-Aug-21
SON31090         Instal safety fencing, from haul road & hoarding (CH115 to CH275)         6         19-Jun-21         25-Jun-21           SON31110         Trees feling (Sbpe D3, CH115 to CH275)         60         26-Jun-21         04-Sep-21           SON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         10-Sep-21           SON30530         Drainage & utilities works (bay 1 to bay 7)         60         07-Jul-21         14-Sep-21           SON3060         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         15-Jan-22           SON30656         Construct Twin Fresh Watermain CH20 to CH100         160         07-Jul-21         15-Jan-22           SON30662         Construct Trim Fresh Watermain CH270 to CH320         184         07-Jul-21         11-Feb-22           SON30662         Construct Trims fresh Watermain CH270 to CH300         180         07-Jul-21         11-Feb-22           SON30662         Construct Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         17-Sep-21           SON30670         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           SON3070         Donstruct TWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21 <td< td=""><td>CON31730 Road re-</td><td>ad re-alignment &amp; TTA modification on SMPR</td><td>30</td><td>04-Jun-21</td><td>10-Jul-21</td></td<>	CON31730 Road re-	ad re-alignment & TTA modification on SMPR	30	04-Jun-21	10-Jul-21
CON31110         Trees feling (Sbpe D3, CH115 to CH275)         60         26-Jun-21         04-Sep-21           CON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         10-Sep-21           CON30530         Drainage & utilities works (bay 1 to bay 7)         60         07-Jul-21         14-Sep-21           CON30650         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         26-Nov-21           CON30656         Construct Twin Fresh Watermain CH270 to CH300         160         07-Jul-21         15-Jan-22           CON30658         Construct Twin Fresh Watermain CH270 to CH300         184         07-Jul-21         16-Feb-22           CON30662         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         17-Sep-21           CON30662         Construct Fresh Watermain ACH320 to CH400         60         10-Jul-21         17-Sep-21           CON30450         Drainage & utilities works (Typ 4 RW)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 tearns)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 tearns)         60         10-Jul-21         <		-	6		
CON30450         Construct RWD1-Type 4 (CH144-CH160) lay U/G utilities ducts & backfill         60         03-Jul-21         10-Sep-21           CON30530         Drainage & utilities works (bay 1 to bay 7)         60         07-Jul-21         14-Sep-21           CON30650         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         26-Nov-21           CON30656         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         15-Jan-22           CON30658         Construct Twin Fresh Watermain CH270 to CH302         184         07-Jul-21         16-Feb-22           CON30662         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           CON30662         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         60         10-Jul-21         17-Sep-21           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 tearns)         60         10-Jul-21         17-Sep-21           CON30390         Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)         371         12-Jul-21         10-Oct-22					
CON30530         Drainage & utilities works (bay 1 to bay 7)         60         07-Jul-21         14-Sep-21           CON30650         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         26-Nov-21           CON30656         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         15-Jan-22           CON30658         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         184         07-Jul-21         16-Feb-22           CON30662         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30570         Drainage & utilities works (Type 4 RW)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works (55m3/d)         371         12-Jul-21         10-Oct-22					
CON30650         Construct Twin Fresh Watermain CH10 to CH50         120         07-Jul-21         26-Nov-21           CON30656         Construct Twin Fresh Watermain CH50 to CH100         160         07-Jul-21         15-Jan-22           CON30658         Construct Twin Fresh Watermain CH270 to CH320         184         07-Jul-21         16-Feb-22           CON30662         Construct Twin Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21           CON31130         Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)         371         12-Jul-21         10-Oct-22					
CON30656         Construct Twin Fresh Watermain CH50 to CH100         160         0.7-Jul-21         15-Jan-22           CON30658         Construct Twin Fresh Watermain CH270 to CH320         184         0.7-Jul-21         16-Feb-22           CON30662         Construct Fresh Watermain ACH320 to CH400 (EPD access)         180         0.7-Jul-21         11-Feb-22           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21           CON31130         Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)         371         12-Jul-21         10-Oct-22					
CON30658         Construct Win Fresh Watermain CH270 to CH320         184         07-Jul-21         16-Feb-22           CON30662         Construct Fresh Watermain ACH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30570         Drainage & utilities works (Type 4 RW)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21           CON31130         Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)         371         12-Jul-21         10-Oct-22					
CON30662         Construct Fresh Watermain A CH320 to CH400 (EPD access)         180         07-Jul-21         11-Feb-22           CON30490         Drainage & utilities works (bay 8 to bay 14)         60         10-Jul-21         17-Sep-21           CON30570         Drainage & utilities works (Type 4 RW)         60         10-Jul-21         17-Sep-21           CON30390         Construct RWD1 (bay 8 to bay 14) utilities works & backfill (2 teams)         60         10-Jul-21         17-Sep-21           CON31130         Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)         371         12-Jul-21         10-Oct-22					
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		nstruct Fresh Watermain ACH320 to CH400 (EPD access) ainage & utilities works (bay 8 to bay 14) ainage & utilities works (Type 4 RW)			
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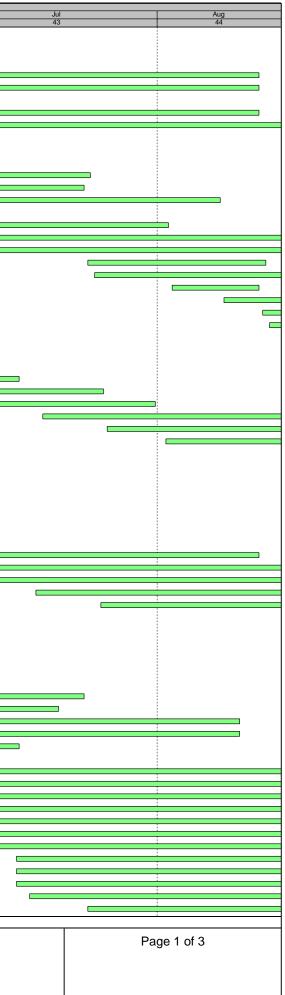
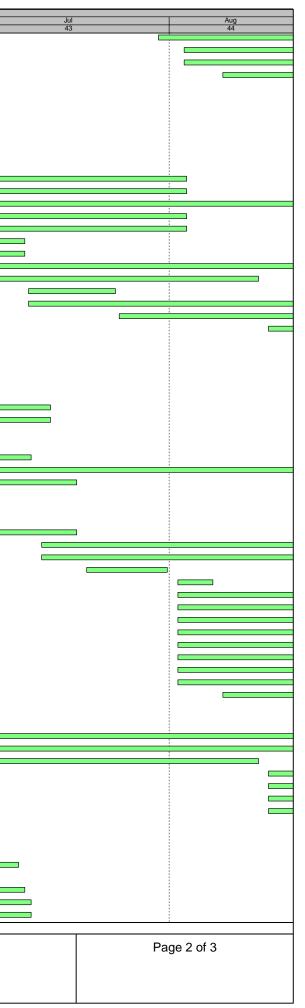


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Coluit 100         Editivos (P1 P /2)         00         22/M-27A         05-M-21         05-M-21           Coluit 100         Editivos (P2 P /3)         00         22/M-27A         05-M-21         05-M-21           Coluit 100         Editivos (P2 P /3)         00         22/M-27A         05-M-21         05-M-21           Coluit 120         Editivos (P2 P /3)         00         15-M/21         15-M-21         05-M-21           Coluit 120         Editivos (P2 P /3)         00         15-M/21         15-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21           Coluit 120A         (ENN-04G) Isaid ordebing PA-45         12         05-M-21         05-M-21         05-M-21      <	COMM 700         EMM under (PT b P2)         60         22 Mar 21 A         05-Jun 21           COMM 700         EMM under (PT b P2)         60         22 Mar 21 A         05-Jun 21           COMM 700         EMM under (PT b P2)         60         28 Apr 21 A         05-Jun 21           COMM 700         SC, Insall ecadaur (EB-E13 & EB-E14) (Pb to ADT)         60         28 Apr 21 A         10-Jul 21           COMM 700         Enst eter ord (maintram) Pb-AET         48         21 May 21         17 / Jul 21         17 / Jul 21           COMM 720 A         (ENVNB40) (natil mod leads of pp P-F5         12         04 Jul 21         18 Jul 21         18 Jul 21         18 Jul 21           COMM 720 A         (ENVNB40) (natil mod leads of pp P-F2         12         10 - Jul 21         18 Jul 21         24 May 21           COMM 720 A         (ENVNB40) (natil mod leads of pp P-F2         12         12 Jul 21         14 Sup 21         24 Mup 21           COMM 720 A         (ENVNB40) (natil mod leads of pp P-F3         12         12 Jul 21         14 Jul 21         24 Jul 21	
ConversionEAV works (P2 kP3)002 Adv 2/A0 Adv 2/A </td <td>CDM H810         EMM works (P2 tr P3)         60         22 AMar21 A         (05-Jun-21)           CDM H820         EMM works (P2 tr P3)         60         28 Apr-21 A         (05-Jun-21)           CDM H320         Exct seel (rots (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320 A         EKNN480 (retail rot clading PS-PS         12         19-Jul 21         19-Jul 21           CDM H370 A         EKNN480 (retail rot clading PS-PS         12         19-Jul 21         19-Sup 21           CDM H370 A         EMW rots (Ft PD P)         60         12-Jul 21         19-Sup 21           CDM H370 A         EMW rots (Ft PD P)         61         62-Jul 21         13-Jul 21           CDM H370 A         ABW rots (Ft PS PS)         48         62-Jul 21         27-Sep 21           CDM H370 A         ABWF works (Ft PD P)         48         62-Jul 21         27-Sep 21           CDM H370 A         ABWF works (F</td> <td></td>	CDM H810         EMM works (P2 tr P3)         60         22 AMar21 A         (05-Jun-21)           CDM H820         EMM works (P2 tr P3)         60         28 Apr-21 A         (05-Jun-21)           CDM H320         Exct seel (rots (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320         Exct seel (rot (seel fram) PA-BAT         48         22 Haby 21         17-Jul 21           CDM H320 A         EKNN480 (retail rot clading PS-PS         12         19-Jul 21         19-Jul 21           CDM H370 A         EKNN480 (retail rot clading PS-PS         12         19-Jul 21         19-Sup 21           CDM H370 A         EMW rots (Ft PD P)         60         12-Jul 21         19-Sup 21           CDM H370 A         EMW rots (Ft PD P)         61         62-Jul 21         13-Jul 21           CDM H370 A         ABW rots (Ft PS PS)         48         62-Jul 21         27-Sep 21           CDM H370 A         ABWF works (Ft PD P)         48         62-Jul 21         27-Sep 21           CDM H370 A         ABWF works (F	
Column 100         EMM worke (P5 pAT)         G0         2 PAre-21 A         1 PA-421           COLUMT 20         COLUMT 20         COLUMT 20         1 PA-421         1 PA-421           COLUMT 20         Event and local (Leg (PA-15 CALL)         448         2 PA-21 A         1 PA-421           COLUMT 20         Event and local (Leg (PA-15 CALL)         448         2 PA-21 A         1 PA-421           COLUMT 20         Event and local (Leg (PA-15 CALL)         1 PA-421         1 PA-421         1 PA-421           COLUMT 20         EVENt 20         0 PA-421         1 PA-421         0 PA-421         1 PA-421           COLUMT 20         EVENt 20         0 PA-421         1 PA-421         1 PA-421           COLUMT 20         EVENt 20         0 PA-421         1 PA-421         1 PA-421           COLUMT 20         EVENt 20         0 PA-421         1 PA-421         1 PA-421           COLUMT 20         EVENt 20         0 PA-421         2 PA-221         2 PA-221           COLUMT 20         EVENt 20         0 PA-421         2 PA-221         2 PA-221           COLUMT 20         EVENt 20         0 PA-421         2 PA-221         2 PA-221           COLUMT 20         AVENt work (P 1PA PA)         0 PA-421         2 PA-221         2	CDNH 180         EAM works (P6 to ABT)         00         12-Abp/21A         17-Sbp/21           CDNH 1700         30, lonal secasitor (B5 to ABT)         90         12-May 21A         17-Sbp/21           CDNH 1720         Encitase long (B5 to ABT)         46         21-May 21A         17-Sbp/21           CDNH 1720         Encitase long (B5 to ABT)         46         21-May 21A         17-Sbp/21           CDNH 1720A         (EVNNABC) Insal nod (adding P5-P6         12         0-4-Linx/21         18-Linx/21           CDNH 1720A         (EVNNABC) Insal nod (adding P5-P6         12         0-4-Linx/21         18-Jun/21           CDNH 170A         (EVNNABC) Insal nod (adding P5-P6         12         12         15-Jun/21         18-Sbp 21           CDNH 170A         EAM works (P4 to P5)         60         12-Jul/21         18-Sbp 21         0-4-Jun/21           CDNH 170A         EAM works (P4 to P5)         60         12-Jul/21         27-Sbp 21         0-4-Jun/21           CDNH 170A         ABW works (P6 to P1)         48         0-4-Jun/21         27-Sbp 21         0-4-Sbp 21           CDNH 130         ABWF works (P6 to P1)         48         0-4-Jun/21         27-Sbp 21         0-4-Sbp 21           CDNH 130         ABWF works (P6 to P5)         48	
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COM 42:00         Event steel nord reading Pho-MBT         44         22 - May 24         07.44/21           COM 42:00 A         COM 4000 Final nord reading Pho-MBT         12         22 - May 24         08.40/21           COM 42:00 A         COM 4000 Final nord reading Pho-PBT         12         0.41.02/21         0.61.02/21           COM 42:00 A         COM 4000 Final nord reading Pho-PBT         12         0.41.02/21         0.61.02/21           COM 42:00 A         COM 4000 Final nord reading Pho-PBT         12         0.51.02/21         0.75.02/21           COM 42:00 A         COM 4000 Final nord reading Pho-PBT         12         0.51.02/21         0.75.02/21           COM 41:00 A         Exter working Baltom (sizes 28)         6         0.02.44/21         27.58-p21           COM 41:00 A         Mark working Pho FIP         48         0.02.44/21         27.58-p21           COM 41:00 A         ABW working Pho FIP         48         0.02.44/21         27.58-p21           COM 41:00 A         ABW working Pho FIP         48         0.02.44/21         27.58-p21           COM 41:00 A         ABW working Pho FIP         48         0.02.44/21         27.58-p21           COM 41:00 A         ABW working Pho FIP         48         0.02.44/21         27.58-p21	COM41200         Erect steal rod (seed frame) P6-ABT         448         21-4/by-21         17-Ju-21           COM412S0A         (EWN046C) Install rod cidding P5-P5         12         04-Jun-211         18-Jun-21           COM41270A         (EWN046C) Install rod cidding P5-P5         12         04-Jun-211         18-Jun-21           COM41210A         (EWN046C) Install rod cidding P5-P5         12         06-Jun-211         10-Jun-211           COM41210A         (EWN046C) Install rod cidding P5-P5         12         06-Jul-211         11-Jul-21           COM41210A         (EWN046C) Install rod cidding P5-P5         12         06-Jul-211         11-Jul-21           COM41210A         (EWN046C) Install rod cidding P5-P5         12         06-Jul-21         11-Jul-21           COM4120A         EAW works (Pto P5)         60         02-Jul-21         27-Jul-21           COM4120A         Eerd works platform (spe 526)         6         02-Aug-21         27-Sep-21           COM4130A         Landscaping works Are instatement works         48         02-Aug-21         27-Sep-21           COM4130A         ABWF works (Pto P5)         48         02-Aug-21         27-Sep-21           COM4130A         ABWF works (Pto 10-P5)         48         02-Aug-21         27-Sep-21	
COM H2004         (EVNNetB) relation diveding PE-PB         12         0 - 2-Marg21         10-Marg21         10-Marg21           COM H200A         (EVNNetB) relation diveding PE-PB         12         0 - 4-Marg21         10-Marg21         0 - 3-Marg21           COM H200A         (EVNNetB) relation diveding PE-PB         12         0 - 4-Marg21         13-Marg21         0 - 3-Marg21           COM H210A         (EVNNetB) relation diveding PE-PB         12         0 - 4-Marg21         13-Marg21           COM H210A         (EVNNetB) relation diveding PE-PB         12         13-Marg21         13-Marg21           COM H210A         (EVNNetB) relation diveding PE-PB         6         10-Aug21         13-Marg21           COM H310         AB/VF works (PB FI PI)         46         10-Aug21         27-Sep-21           COM H310         AB/VF works (PB FI PI)         46         10-Aug21         27-Sep-21           COM H310         AB/VF works (PB IP PI)         46         10-Aug21         27-Sep-21           COM H310         AB/VF works (PB IP PI)         46         10-Aug21         27-Sep-21           COM H310         AB/VF works (PB IP PI)         46         10-Aug21         27-Sep-21           COM H310         AB/VF works (PB IP PI)         46         10-Aug21 <t< td=""><td>CON1250A         (EVM046C) install not clading P5-P5         12         21-May 21*         03-Jun-21           CON1270A         (EVM046C) install not clading P5-P5         12         04-Jun-21*         03-Jul-21           CON1210A         (EVM046C) install not clading P5-P5         12         05-Jul-21*         17-Jul-21           CON1210A         (EVM046C) install not clading P5-P5         00         17-Jul-21         18-Sup-21           CON1210A         (EVM046C) install not clading P5-P5         00         12-Jul-21         18-Sup-21           CON1210A         (EVM046C) install not clading P5-P5         00         12-Jul-21         18-Sup-21           CON120A         (EVM046C) install not clading P5-P5         00         07-Aug-21         07-Aug-21           CON1150         EAM works (Pt to P5)         68         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P2)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON11500         ABWF wo</td><td></td></t<>	CON1250A         (EVM046C) install not clading P5-P5         12         21-May 21*         03-Jun-21           CON1270A         (EVM046C) install not clading P5-P5         12         04-Jun-21*         03-Jul-21           CON1210A         (EVM046C) install not clading P5-P5         12         05-Jul-21*         17-Jul-21           CON1210A         (EVM046C) install not clading P5-P5         00         17-Jul-21         18-Sup-21           CON1210A         (EVM046C) install not clading P5-P5         00         12-Jul-21         18-Sup-21           CON1210A         (EVM046C) install not clading P5-P5         00         12-Jul-21         18-Sup-21           CON120A         (EVM046C) install not clading P5-P5         00         07-Aug-21         07-Aug-21           CON1150         EAM works (Pt to P5)         68         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P2)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON1150         ABWF works (Pt to P5)         48         02-Aug-21         27-Sup-21           CON11500         ABWF wo	
COM 1290A         (EVNAND4G) relation divides (PA-PB         12         2 4-3m-21         (ENAND4G)           COM 1270A         (EVNAND4G) relation divides (PA-PB         12         49-3m-21         (ENAND4G)           COM 1270A         (EVNAND4G) relation divides (PA-PB         12         49-3m-21         (ENAND4G)           COM 1270A         (EVNAND4G) relation divides (PA-PB         12         49-3m-21         (ENAND4G)           COM 1270A         (EVNAND4G) relation divides (PA-PB         12         49-3m-21         (ENAND4G)           COM 1270A         (EVNAND4G) relation divides (PA-PB         88         12-3m-21         31-3m-21           COM 1270A         (EVNAND4G) relation divides (PA-PB         6         02-Am-21         27-58p-21           COM 1270A         (EVNAND4G) relation divides (PA-PB         48         02-Am-21         27-58p-21           COM 1370         (EVPNAND4G) relation divides (PA-PB         48         02-Am-21         27-58p-21           COM 1470A         (EVPNAND4G) relation divides (PA-PB         48         02-Am-21         27-58p-21           COM 1470A         (EVPNAND4G) relation divides (PA-PB         48         02-Am-21         27-58p-21           COM 1470A         (EVPNAND4G) relation divides (PA-PB         6         02-Am-21         27-58p-21	CONM1250A         (EVM046C) instal root clading P5-P5         12         21-May-21*         03-Jun-21           CONM1270A         (EVM046C) instal root clading P5-P5         12         04-Jun-21*         03-Jul-21           CONM1270A         (EVM046C) instal root clading P5-P5         12         05-Jul-21*         17-Jul-21           CONM1270A         (EVM046C) instal root clading P5-P5         60         12-Jul-21         18-Sap-21           CONM1270A         (EVM046C) instal root clading P5-P5         60         12-Jul-21         18-Sap-21           CONM1270A         (EVM046C) instal root clading P5-P5         60         07-Aug-21         27-Sap-21           CONM1280A         (EVM046C) instal root clading P5-P5         6         02-Aug-21         27-Sap-21           CONM1250         Landracajng works & triotstammi works         8         02-Aug-21         27-Sap-21           CONM1350         ABWF works (P1 to P2)         48         02-Aug-21         27-Sap-21           CONM1350         ABWF works (P1 to P2)         48         02-Aug-21         27-Sap-21           CONM1350         ABWF works (P5 to P4)         48         02-Aug-21         27-Sap-21           CONM1350         ABWF works (P5 to P5)         48         02-Aug-21         27-Sap-21           CONM1	
CON41270A(EMAN460; seall ord dating Ph>Re)120-4-Jan 270-5-Jan 27CON41370A(EMAN460; seall ord dating Ph>Re)120-5-Jan 270-5-Jan 27CON41370A(EMAN460; seall ord dating Ph>Re)0012-Jan 270-7-Jan 27CON41370A(EMAN460; seall ord dating Ph>Re)0012-Jan 270-7-Jan 27CON41370A(EMAN460; seall ord dating Ph>Re)0012-Jan 270-7-Jan 27CON41370A(EMAN460; seall ord dating Ph>Re)1219-Jan 270-7-Sep 21CON41370A(EMAN460; seall ord dating Ph>Re)480-2-Aug 212-7-Sep 21CON41370AAB/M modes [Ph 2 Ph)4802-Aug 212-7-Sep 21CON41370AAB/M modes [Ph 2 Ph]4802-Aug 212-7-Sep 21CON41370AAB/M modes [Ph 2 Ph]4802-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]4802-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]480-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]480-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]480-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]490-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]490-Aug 212-7-Sep 21CON41370AB/M modes [Ph 2 Ph]490-Aug 212-Sep 21CON41370AB/M modes [Ph 2 Ph]490-Aug 212-Sep 21CON41370Perdosentar Jan 289-02 <td< td=""><td>CON1270A         (EVM049C) Install rod clading P5-P8         12         0-4.un-21*         18.lun-21           CON11100A         (EVM049C) Install rod clading P5-P8         12         19-lun-21*         03-lud-1           CON14110A         (EVM049C) Install rod clading P5-P8         12         06-lul-21*         17.lul-21           CON14120A         (EVM049C) Install rod clading P5-P8         12         06-lul-21*         18-Stap-21           CON14120A         (EVM049C) Install rod clading P5-P8         12         19-lul-21*         24-lug-21           CON14120A         (EVM049C) Install rod clading P6-ABT         12         19-lul-21*         24-lug-21           CON1420A         (EVM049C) Install rod clading P6-ABT         12         02-lug-21         27-Stap-21           CON1430A         ABWF works (P3 A F1 to P1)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P3 to P1)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P4 to P5)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P6 to ABT)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P6 to ABT)         48         02-lug-21         27-Stap-21           CON</td><td></td></td<>	CON1270A         (EVM049C) Install rod clading P5-P8         12         0-4.un-21*         18.lun-21           CON11100A         (EVM049C) Install rod clading P5-P8         12         19-lun-21*         03-lud-1           CON14110A         (EVM049C) Install rod clading P5-P8         12         06-lul-21*         17.lul-21           CON14120A         (EVM049C) Install rod clading P5-P8         12         06-lul-21*         18-Stap-21           CON14120A         (EVM049C) Install rod clading P5-P8         12         19-lul-21*         24-lug-21           CON14120A         (EVM049C) Install rod clading P6-ABT         12         19-lul-21*         24-lug-21           CON1420A         (EVM049C) Install rod clading P6-ABT         12         02-lug-21         27-Stap-21           CON1430A         ABWF works (P3 A F1 to P1)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P3 to P1)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P4 to P5)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P6 to ABT)         48         02-lug-21         27-Stap-21           CON1430A         ABWF works (P6 to ABT)         48         02-lug-21         27-Stap-21           CON	
CD0H190A(EVNH48C) real not inding P2-P31291-2493-3421CD0H1210A(EVNH48C) real not inding P2-P31205-3214115-89-11CD0H1370AEAM vorte (64-P5)6012-34-1225-4-39-21CD0H1370A(EVNH48C) real not inding P2-P31205-321431-3421CD0H1370A(EVNH48C) real not inding P3-P31213-342127-58-21CD0H1370AAPW vorte (64-P3)4802-49-2127-58-21CD0H1370AAPW vorte (79 F1 P2)4802-49-2127-58-21CD0H1370AAPW vorte (79 F2 P3)4802-49-2127-58-21CD0H1370AAPW vorte (79 F3 PA)4802-49-2127-58-21CD0H1370AAPW vorte (79 F3 PA)4802-49-2127-58-21CD0H1470AAPW vorte (79 F3 PA)6402-49-2127-58-21CD0H1470AAPW vorte (79 F3 PA)6402-49-2127-58-21CD0H1470AMAW vorte (16 revorte vorte	COM100A         (EWN04BC) Install root clading P1-P2         12         19-Jun-21*         003-Jul-21           COM1210A         (EWN04BC) Install root clading P2-P3         12         05-Jul-21*         17-Jul-21           COM1470         EAM works (P4 to P5)         60         12-Jul-21         18-68p-21           COM1470A         (EWN04BC) Install root clading P2-P3         12         13-Jul-21         24-Aug-21           COM1470A         (EWN04BC) Install root clading P5-ABT         12         13-Jul-21         27-Step-21           COM4050A         Erect working platform (slope 326)         6         02-Aug-21         27-Step-21           COM1430A         ABWF works (P1 to P1)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P1 to P2)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P5 to P4)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P5 to P4)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P5 to P4)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P5 to P4)         48         02-Aug-21         27-Step-21           COM1430A         ABWF works (P5 to P4	
CDN4120AEVN0446() Insal Coducting Po-PaP12012-34-2117-34-21CDN4170EdMawstig Piter PhSP6819-34-2119-549-21CDN4180AEdMawstig Piter Dickes 2006802-Aug-2127-549-21CDN4180AEdmawstig Piter Dickes 2006802-Aug-2127-549-21CDN4180AABW works (P1 b P1)4802-Aug-2127-549-21CDN4180AABW works (P1 b P3)4802-Aug-2127-549-21CDN4180AABW works (P1 b P3)4802-Aug-2127-	CCN141210A         (EWN048C) Instal roof cladding P2-P3         12         05-Jul 21*         17-Jul 21           CON141870         EAM works (P4 to P5)         60         12-Jul 21         18-Sep-21           CON141910         EAM works (EWE Hand)         38         12-Jul 21*         31-Jul 21           CON14200A         (EWN048C) Instal roof cladding P6-ABT         12         19-Jul 21*         31-Jul 21           CON1420A         Extworking patform (skpp 32.6)         6         02-Aug 21         07-Aug 21           CON14150         Landscaping works a reinstatement works         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P1 to P2)         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P2 to P3)         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P3 to P4)         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P3 to P4)         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P6 to P5)         48         02-Aug 21         27-Sep 21           CON14130         ABWF works (P6 to P6)         48         02-Aug 21         27-Sep 21           CON14130         Spop replacement works cych 1 (sbpe 32	
CDVH1970         EM vards [Ethnam]         00         12.44/21         19.580.271           CDVH1970         EM vards [Ethnam]         03         12.44/21         24.44/22           CDVH1970         EM vards [Ethnam]         12         19.34/21         37.34/21           CDVH2030         Ent vards (pattern)         6         02.44/221         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P1)         48         02.44/221         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P2)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         48         02.44/21         27.58/21         27.58/21           CDVH130         ABVW vards (P1 to P3)         14         07.44/21         28.44/2	CCN41870         É&M works (P4 to P5)         60         12-Jul-21         18-Sep-21           CON41910         EAM works (External)         38         12-Jul-21         24-Aug-21           CON41900         Edw works (External)         12         13-Jul-21         23-Jul-21           CON41900         Edw works (Datin of clading P6-ABT         12         13-Jul-21         23-Jul-21           CON40530         Erect working platform (shop 326)         6         02-Aug-21         07-Aug-21           CON41300         ABWF works (P1 to P1)         48         02-Aug-21         27-Sep-21           CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P5)         18         09-Aug-21	
COM 41970EM works (Evanual)600102.012108.087.02COM 41300EM works (Evanual)120.0024.40.92124.40.921COM 41304(EVM 4046) (Instance)68.1002.40.92127.58p.21COM 41304Landscarge works A restaturent works48.802.40.92127.58p.21COM 41304Landscarge works A restaturent works48.802.40.92127.58p.21COM 41304Landscarge works A restaturent works48.802.40.92127.58p.21COM 41304ABW works (Pto P2)48.802.40.92127.58p.21COM 41304ABW works (Pto P3)48.802.40.92127.58p.21COM 41304ABW works (Pto P6)48.802.40.92127.58p.21COM 41304ABW works (Pto P6)48.802.40.92127.58p.21COM 41304ABW works (Pto P6)48.808.40.92127.58p.21COM 41304ABW works (Pto P6)48.808.40.92127.58p.21COM 41304ABW works (Pto P6)48.808.40.92127.58p.21COM 41304ABW works (Pto P6)48.808.40.92127.58p.21COM 41304ABW works (Pto P6)48.808.40.92128.40.921COM 41304ABW works (Pto P6)48.808.40.92128.40.921COM 41304Applicator to prove stapp & starge starg	CON141700         EAM works (P4 to P5)         600         12-Jul/21         18-Sep.21           CON141900         EAM works (External)         38         12-Jul/21         24-Aug.21           CON141900         ECW Notes (Dastin of clading P5-ABT         12         19-Jul/21         23-Jul/21           CON14200A         ECW Notes (Distall or clading P5-ABT         6         02-Aug.21         07-Aug.21           CON1430A         ABWF works (P1 to P1)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P1 to P2)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P2 to P3)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P3 to P4)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P3 to P5)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P3 to P4)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P5 to P5)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P5 to P5)         48         02-Aug.21         27-Sep.21           CON1430A         ABWF works (P5 to P5)         48         02-Aug.21 </td <td></td>	
CON19101         EAW works (Extensio)         GBW         313         313         314         24 Aug.21           CON191200A         (EVMNSD) retained works (GMP B7AT)         16         02Aug.21         27.58p.21           CON191200A         End works gateline (GMP B7AT)         46         02Aug.21         27.58p.21           CON141300         Landscapp works & retraitisent works         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P1)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P2)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P3)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P3)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P3)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P3)         46         02Aug.21         27.58p.21           CON141300         ABW Fworks (P13 P P3)         47.49         08Aug.21         27.58p.21           CON141300         Install CAMUCPCDS Ind P1Br Box         10         07.49c.21 A         28.4ug.21           CON14000         Install CAMU	CON41910         E&M works (External)         38         12-Jul-21         24-Aug-21           CON41290A         (EWN048C) Instal root clading P6-ABT         12         19-Jul-21         31-Jul-21           CON41300         Erect works (p3 & F1 to P1)         6         02-Aug-21         07-Aug-21           CON41310         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P3 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41300         Stope refloacement works cycle 1 (sipe 326)         18         09-Aug-21         28-Aug-21           CON40500         Stope refloacement works cycle 1 (sipe 326)	
COM1200A         (EVN0465) Insult or dexisting PExAFT         12         19.Ju2/1         31.Ju2/1           COM04500         End volking plation (kpbp 326)         6         102.Ju2/1         27.58p.21           COM1300         ABVF works (P5 AF 15 P1)         46         02.Ju2/21         27.58p.21           COM1300         ABVF works (P2 AF 3)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P2 AF 3)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P4 DF 6)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P5 D6 A)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P5 D6 A)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P5 D6 A)         48         02.Ju2/21         27.58p.21           COM1300         ABVF works (P5 D6 A)         48         02.Ju2/21         27.58p.21           COM41500         Spice rajoacement works odv 1 (lipte 328)         07.4p.21 A         08.2b.021           COM1300         Instal EM (ELEMNACPOS) ind. Pate Box         07.4p.21 A         08.2b.021           COM5010         Instal Works (Mas 2)         07.4p.21 A         04.2b.021 <t< td=""><td>CON41290A         (EWN048C) Install root cladding P6-ABT         12         19-Jul-21*         31-Jul-21           CON40300         Erect working platform (slope 326)         6         02-Aug-21         07-Aug-21           CON41310         ABWF works (P5 8 F1 to P1)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         209         07-Apr-21 A         08-Boe-21           CON40650         Sippe replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON504070         Application for power supply &amp; ener</td><td></td></t<>	CON41290A         (EWN048C) Install root cladding P6-ABT         12         19-Jul-21*         31-Jul-21           CON40300         Erect working platform (slope 326)         6         02-Aug-21         07-Aug-21           CON41310         ABWF works (P5 8 F1 to P1)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         209         07-Apr-21 A         08-Boe-21           CON40650         Sippe replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON504070         Application for power supply & ener	
CONM650         End working patition (dep 28)         6         02-Aug-21         07-Aug-21           CONM1310         ABWF working (Pb 6 Ph 10 P1)         48         02-Aug-21         27-56p-21           CONM1310         ABWF working (Pb 10 P2)         48         02-Aug-21         27-56p-21           CONM1310         ABWF working (Pb 10 P2)         48         02-Aug-21         27-56p-21           CONM1300         ABWF working (Pb 10 P2)         48         02-Aug-21         27-56p-21           CONM1300         ABWF working (Pb 10 P2)         48         02-Aug-21         27-56p-21           CONM1300         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1300         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1400         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1400         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1400         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1400         ABWF working (Pb 10 P5)         48         02-Aug-21         27-56p-21           CONM1400         Apolatin tor pwores and to the top-21         00-54p-21 <td>CON40630         Erect working platform (slope 326)         6         02-Aug-21         07-Aug-21           CON41030         ABWF works (P1 to P1)         48         02-Aug-21         27-Sep-21           CON41030         Landscaping works are instatument works         48         02-Aug-21         27-Sep-21           CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41330         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40450         Sope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON50470         Mapl EatM (ELEMVAC/PDS) ind. Pliar Box</td> <td></td>	CON40630         Erect working platform (slope 326)         6         02-Aug-21         07-Aug-21           CON41030         ABWF works (P1 to P1)         48         02-Aug-21         27-Sep-21           CON41030         Landscaping works are instatument works         48         02-Aug-21         27-Sep-21           CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41330         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41430         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40450         Sope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON50470         Mapl EatM (ELEMVAC/PDS) ind. Pliar Box	
COM4130         ABWF works (P3 AF 15 DP)         48         02-Aug-21         27-Sep-21           COM4130         Landscaping works erivisatement works         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P1 D P2)         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P2 D P3)         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P3 D PA)         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P5 D F6)         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P5 D F6)         48         02-Aug-21         27-Sep-21           COM4130         ABWF works (P6 Ds ABT)         48         02-Aug-21         27-Sep-21           COM41600         Sep erglexement works-role1 (stope 38)         18         09-Aug-21         27-Sep-21           COM4050         Sep erglexement works-role1 (stope 38)         18         09-Aug-21         27-Sep-21           COM4050         Sep erglexement works-role1 (stope 38)         18         09-Aug-21         28-Aug-21           COM50400         Instal EAM (ELGMAVC/PDS) ind 178-Air         48         06-Aug-21         09-Be-21           COM50470         Appletation for power supply &	CON41310         ABWF works (F9 & F1 to P1)         48         02-Aug-21         27-Sep-21           CON41450         Landscaping works & reinstatement works         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON4050         Slope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           Construction Works         Tosturetion Works         Statu EAM (ELE.MYAC/PDS) ind. Pilar Box         106         07-Apr-21A         28-Aug-21           Constor400         Instal EAM (ELE.MYAC/PDS) ind. Pilar Box         106         07-Apr-21A         28-Aug-21	
CDVH 1490         Landscaping works & instalationent works         44         02-Aug-21         27-Sep-21           CDVH 1300         ABWF works (P1 to P2)         44         02-Aug-21         27-Sep-21           CDVH 1300         ABWF works (P1 to P2)         44         02-Aug-21         27-Sep-21           CDVH 1300         ABWF works (P1 to P5)         44         02-Aug-21         27-Sep-21           CDVH 1300         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CDVH 1300         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CDVH 1410         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CDVH 1410         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CDVH 1410         ABWF works (P5 to P6)         48         07-Ap-21A         28-Aug-21           CDVH 1410         ABWF works (P1 expander 14)         48         04-Aug-21         28-Aug-21           CDVH 1410         Itsue 16M (ELEMAACPE) works (P1 expander 14)         04-Ug-21         28-Aug-21         08-Aug-21           CDVNStr00         Inplaction for power suppl & aenrigation (SYA)         12         07-Ap-21A         28-Aug-21         02-Aug-21           CDVNStr00	CON41450         Landscaping works & reinstatement works         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40650         Sope replacement works cycle 1(sope 326)         18         09-Aug-21         28-Aug-21           CON504060         Instal E&M (ELE/MVAC/PDS) ind. Pilar Box         106         07-Apr-21A         08-Dec-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21A         28-Aug-21           CON50290         Construct superstructure of lift tower to rool level (Smpour, +165.7 to +178.45         84         06-Mag-21         12-Oct-21	
ABVF works (P1 to P2)4802-Aug-2127-Sep-21CON141370ABVF works (P2 to P3)4802-Aug-2127-Sep-21CON14130ABVF works (P4 to P5)4802-Aug-2127-Sep-21CON14130ABVF works (P5 to P6)4802-Aug-2127-Sep-21CON14130ABVF works (P6 to ABT)4802-Aug-2127-Sep-21CON14130ABVF works (P6 to ABT)4802-Aug-2128-Aug-21CON14130ABVF works (P6 to ABT)1802-Aug-2128-Aug-21Sober reglearement works cycle (slope 326)1809-Aug-2128-Aug-21CONS0400Inself EM/(ELM/AC/PD5) rd, Plier Box10007-Apr21A08-Dec-21CONS0400Inself EM/(ELM/AC/PD5) rd, Plier Box10007-Apr21A28-Aug-21CONS0400Construct augeristic (SN)12007-Apr21A28-Aug-21CONS0400Inself EM/(ELM/AC/PD5) rd, Plier Box18004-Aug-2112-Ouc-21CONS0400Construct augeristic (SN)12007-Apr21A28-Aug-21CONS0400Inself Works (Ith tower & starcase)6016-Aug-2112-Ouc-21CONS0400Inself Works (Ith tower & starcase)6016-Aug-2101-Dec-21CONS0400Inself Works (Ith work & starcase)19016-Aug-2101-Dec-21CONS0400Inself Works (Ith Start & Startase)19016-Aug-2101-Dec-21CONS0400Inself Works (Ith Start & Startase)19016-Aug-2101-Dec-21CONS0400Inself Works (Ith Start & Startase) <td>CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41370         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41390         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41390         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41400         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41400         ABWF works (P6 to ABT)         48         09-Aug-21         27-Sep-21           CON40650         Stope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON50070         Instal E&amp;M (ELE/MVAC/PDS) incl. Pillar Box         106         07-Apr-21A         08-Dec-21           CON50070         Application for power supply &amp; energization (SYA)         120         07-Apr-21A         28-Aug-21           CON50070         Construct superstructu</td> <td></td>	CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41370         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41390         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41390         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41400         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41400         ABWF works (P6 to ABT)         48         09-Aug-21         27-Sep-21           CON40650         Stope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON50070         Instal E&M (ELE/MVAC/PDS) incl. Pillar Box         106         07-Apr-21A         08-Dec-21           CON50070         Application for power supply & energization (SYA)         120         07-Apr-21A         28-Aug-21           CON50070         Construct superstructu	
ABMF works (P1 to P2)AB02-Aug-2127-Sep-21DON1130ABMF works (P2 to P3)4802-Aug-2127-Sep-21DON1130ABMF works (P3 to P4)4802-Aug-2127-Sep-21DON1130ABMF works (P5 to P5)4802-Aug-2127-Sep-21DON1130ABMF works (P5 to P5)4802-Aug-2127-Sep-21DON1140ABMF works (P5 to P5)4802-Aug-2127-Sep-21DON1140ABMF works (P5 to P5)8802-Aug-2128-Aug-21DON1140ABMF works (P5 to P5)1802-Aug-2128-Aug-21DON1450Spore reglement works cycle (stope 326)1809-Aug-2128-Aug-21DON50400Insel E5M (IELMA/CPDS) in Plar Box10607-Apr21A28-Aug-21DON50400Nessl E5M (IELMA/CPDS) in Plar Box10607-Apr21A28-Aug-21DON50400Apple inter Sr Name16407-Apr21A28-Aug-21DON50400Nessl E5M (IELMA/CPDS) in Plar Box16407-Apr21A28-Aug-21DON50400Apple inter Sr Name16407-Apr21A28-Aug-21DON50400Apple inter Sr Name16407-Apr21A28-Aug-21DON50400Nessl E5M (IELMA/CPDS) in Plar Box16407-Apr21A28-Aug-21DON50400Read tage-estimation of its were tor of were stape 1-10-10-2111-Aug-2111-Aug-21DON50400Insel Worke (Its were starcame)9016-Aug-2101-Dec-21DON50400Insel Worke (Its were starcame)19016-Aug-2101-D	CON41330         ABWF works (P1 to P2)         48         02-Aug-21         27-Sep-21           CON41370         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41400         ABWF works (P6 to ABT)         48         09-Aug-21         27-Sep-21           CON40650         Sope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           CON50070         Instal E&M (ELE/MVAC/PDS) incl. Pillar Box         106         07-Apr-21A         08-Dec-21           CON50070         Application for power supply & energization (SYA)         120         07-Apr-21A         28-Aug-21           CON50070         Construct superstructur	
CDN41370         ABVF works (P2 to P3)         448         02-Aug-21         27.Sep-21           CDN41350         ABVF works (P4 to P5)         48         02-Aug-21         27.Sep-21           CDN41350         ABVF works (P5 to P5)         48         02-Aug-21         27.Sep-21           CDN41300         ABVF works (P5 to P5)         48         02-Aug-21         27.Sep-21           CDN41300         ABVF works (P5 to P5)         48         02-Aug-21         27.Sep-21           CDN41410         ABVF works (P5 to P5)         48         02-Aug-21         27.Sep-21           CDN40550         Spe replacement works cycle 1 (abpc 326)         18         02-Aug-21         27.Sep-21           CDN50450         Isbat E&M (ELEM/AC/PD5) hcl. Plan Box         07         07.Agr-21A         08-Deo-21           CDN50450         Isbat E&M (ELEM/AC/PD5) hcl. Plan Box         108         07.Agr-21A         28-Aug-21           CDN50450         Isbat E&M (ELEM/AC/PD5) hcl. Plan Box         108         07.Agr-21A         28-Aug-21           CDN50450         Isbat E&M (ELEM/AC/PD5) hcl. Plan Eox         116         114-Aug-21         112-Oue-21           CDN50450         Isbat E&M (ELEM/AC/PD5) hcl. Plan Eox         18         16-Aug-21         112-Oue-21           CDN50300	CON41370         ABWF works (P2 to P3)         48         02-Aug-21         27-Sep-21           CON41350         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41300         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40650         Slope replacement works cycle 1 (slope 326)         18         09-Aug-21         27-Sep-21           CON50490         Instal E&M (ELEMVAC/PDS) ind. Pilar Box         209         07-Apr-21 A         08-Dec-21           CON50490         Instal E&M (ELEMVAC/PDS) ind. Pilar Box         106         07-Apr-21 A         28-Aug-21           CON50490         Instal E&M (ELEMVAC/PDS) ind. Pilar Box         106         07-Apr-21 A         28-Aug-21           CON50470         Appication for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50290         Construct superstructure of lift tower to orof level (3mpour, +165.7 to +178.457         84         06-May-21         14-Aug-21           CON50270         Erect bridge steel fram for SYA         48         16-Aug-21	
CON141360         ABWF works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON141360         ABWF works (P6 to P5)         48         02-Aug-21         27-Sep-21           CON141300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON141300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON141300         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON141300         Stope replocement works cycle 1(sbps 236)         48         09-Aug-21         28-Aug-21           CON14050         Stope replocement works cycle 1(sbps 236)         109         07-Apr/21 A         28-Aug-21           CON14050         Isal EAM (ELE-MACPDS)ind-IBF Rox         100         07-Apr/21 A         28-Aug-21           CON15070         Application frower suppt & Genergization (SYA)         120         07-Apr/21 A         28-Aug-21           CON15070         Isal eatting testing the set rot rot level (3mpour, +165.7 to +178.457         84         16-Aug-21         12-Oe-21           CON15070         Erect bridge setal rame for SYA         16-Mug-21         12-Oe-21         12-Oe-21           CON15070         Isal window (phase 2)         96         16-Aug-21         01-Oe-21	CON41350         ABW/F works (P3 to P4)         48         02-Aug-21         27-Sep-21           CON41430         ABW/F works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41390         ABW/F works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41410         ABW/F works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON41410         ABW/F works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40650         Stope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           construction Works          Construct spenstructure of 1(slope 326)         18         09-Aug-21         08-Dec-21           Construct spenstructure of late (SE/M/AC/PDS) ind. Pilar Box         106         07-Apr-21 A         08-Dec-21           CoN50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50470         Construct spenstructure of lift tower to rof level (3m/pour, +165.7 to +178.45r         84         06-May-21 A         14-Aug-21           CON50470         Erect bridge steel frame for SYA	
CDN1430         ABWF works (P4 to P5)         48         002-Aug.21         27.Sep.21           CDN4130         ABWF works (P6 to P5)         48         02-Aug.21         27.Sep.21           CDN4140         ABWF works (P6 to P5)         48         02-Aug.21         27.Sep.21           CDN4140         ABWF works (P6 to P5)         48         02-Aug.21         27.Sep.21           CDN4050         Stope replacement works cycle 1 (stope 326)         18         09-Aug.21         28-Aug.21           CDN4050         Stope replacement works cycle 1 (stope 326)         18         09-Aug.21         08-Deo.21           CDN50400         Instal EAM (ELEMAC/PD5) not. Plan Box         106         07-Apr.21 A         28-Aug.21           CDN50470         Application for power suppl's energization (S/A)         120         07-Apr.21 A         14-Aug.21           CDN50270         Erect bridge steel frame for S/A         48         06-Mag.21         01-Deo.21           CDN50330         ABWF works (Ptower Sarces)         96         16-Aug.21         01-Deo.21           CDN50370         Instal window (phase 2)         99         16-Aug.21         01-Deo.21           CDN50370         Instal window (phase 1)         91         22-Mar.21 A         23-Jur.21         23-Jur.21	CON41430         ABWF works (P4 to P5)         48         02-Aug-21         27-Sep-21           CON41390         ABWF works (P5 to P6)         48         02-Aug-21         27-Sep-21           CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40650         Stope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           construction Works         Ystem A (SYA)         209         07-Apr-21 A         08-Dec-21           CON50490         Instal E&M (ELE/MVAC/PDS) ind. Pillar Box         106         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50470         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.457         84         06-May-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower & starcase)	
CON141390         ABWF works (P5 to P6)         48         02-Aug-21         27.5ep-21           CON14140         ABWF works (P6 to ABT)         48         02-Aug-21         27.5ep-21           CON14140         Stope replexement works cycle 1 (stope 326)         18         09-Aug-21         28-Aug-21           edestrian Connectivity Facility System A (SYA)         209         07.4pr-21 A         08-Decs21           CON504900         Instal 8.M(ELEAMMACPDS) ind. Plair B0x         106         07.4pr-21 A         28-Aug-21           CON504900         Application for power supply & energization (SYA)         100         07.4pr-21 A         28-Aug-21           CON504700         Application for power supply & energization (SYA)         100         07.4pr-21 A         28-Aug-21           CON50270         Enert bridge steel frame for SYA         44         16-Aug-21         08-Dec-21           CON50330         ABWF works (lft tower & starcase)         96         16-Aug-21         08-Dec-21           CON50330         Instal window (phase 2)         99         16-Aug-21         01-Dec-21           CON50370         Instal window (phase 2)         191         22-Mar-21 A         11+Nov-21           CON50370         Instal window (phase 2)         191         22-Mar-21 A         23-Mar-21	CON41390       ABWF works (P5 to P6)       48       02-Aug-21       27-Sep-21         CON41410       ABWF works (P6 to ABT)       48       02-Aug-21       27-Sep-21         CON40650       Slope replacement works cycle 1 (slope 326)       18       09-Aug-21       28-Aug-21         construction Works       Sope replacement works cycle 1 (slope 326)       18       09-Aug-21       28-Aug-21         construction Works       209       07-Apr-21 A       08-Dec-21         construction Works       106       07-Apr-21 A       08-Dec-21         CON50490       Install E&M (ELE/MVAC/PDS) ind. Pilar Box       106       07-Apr-21 A       28-Aug-21         CON50470       Application for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         CON50290       Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r       84       06-May-21 A       14-Aug-21         CON50270       Erect bridge steel frame for SYA       48       16-Aug-21       12-Oct-21       12-Oct-21         CON50330       ABWF works (lift tower & starcase)       96       16-Aug-21       08-Dec-21       12-Oct-21	
CoN41390         ABWF works (P5 to P6)         48         02-Aug-21         27.Sap-21           CON41400         ABWF works (P6 to ABT)         48         02-Aug-21         27.Sap-21           CON41400         Stope replacement works cycle 1 (stope 326)         18         09-Aug-21         228-Aug-21           construction Works         2009         07.Apr-21 A         08-Deoc21           construction Works         2009         07.Apr-21 A         08-Deoc21           construction Works         2009         07.Apr-21 A         28-Aug-21           construction Works         106         07.Apr-21 A         28-Aug-21           construction Works         106         07.Apr-21 A         28-Aug-21           construction Works         106         06-Mag-21         28-Aug-21           construction Works         Construct superstructure of its tower to role level (3mpour, +165.7 to +178.45)         84         16-Aug-21         12-Oct-21           construction Works         Enec torings steel frame for SYA         48         16-Aug-21         10-Doc-21           construction Works         Instal window (phase 2)         90         16-Aug-21         10-Doc-21           construction Works         Instal window (phase 2)         191         22-Mar-21 A         11-Nov-21      <	CON41390       ABWF works (P5 to P6)       48       02-Aug-21       27-Sep-21         CON41410       ABWF works (P6 to ABT)       48       02-Aug-21       27-Sep-21         CON40650       Slope replacement works cycle 1 (slope 326)       18       09-Aug-21       28-Aug-21         construction Works       Stope replacement works cycle 1 (slope 326)       18       09-Aug-21       28-Aug-21         construction Works       209       07-Apr-21 A       08-Dec-21       08-Dec-21         construction Works       106       07-Apr-21 A       08-Dec-21         CON50490       Instal E&M (ELE/MVAC/PDS) ind. Pilar Box       106       07-Apr-21 A       28-Aug-21         CON50470       Application for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         CON50290       Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r       84       06-May-21 A       14-Aug-21         CON50270       Erect bridge steel frame for SYA       48       16-Aug-21       12-Oct-21       12-Oct-21         CON50330       ABWF works (lift tower & starcase)       96       16-Aug-21       08-Dec-21       12-Oct-21	
CON14110         ABW Fworks (P6 to ABT)         48         02.Aug-21         27.Sep-21           CON40650         Sope replacement works cycle 1 (sope 326)         18         09-Aug-21         28Aug-21           addestrian Connectivity Facility System A (SYA)         209         07.Apr-21A         08-Deoc-21           CON50490         Instal E&M (ELEM/VAC/PDS) incl. Pilar Box         209         07.Apr-21A         28Aug-21           CON50470         Application for power supply & energization (SYA)         106         07.Apr-21A         28Aug-21           CON50270         Construct superstructure of lift work to roof level (3mpour, +165.7 to +178.4F         84         06-May-21A         14.Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50370         Instal window (phase 2)         09         16-Aug-21         01-Deo-21           CON50370         Instal window (phase 2)         09         16-Aug-21         01-Deo-21           CON50370         Instal window (phase 2)         191         22-Mar-21A         23-Mar-21A           CON50370         Instal window (phase 2)         09         16-Aug-21         11-Now-21           CON50370         Pre-drif & construct paing find at SYB-PC1 (gnos, 8d/no, 1 team)         72         29-M	CON41410         ABWF works (P6 to ABT)         48         02-Aug-21         27-Sep-21           CON40650         Sope replacement works cycle 1 (slope 326)         18         09-Aug-21         28-Aug-21           edestrian Connectivity Facility System A (SYA)         209         07-Apr-21 A         08-Dec-21           construction Works         209         07-Apr-21 A         08-Dec-21           construction Works         209         07-Apr-21 A         08-Dec-21           CON50490         Install E&M (ELE/MVAC/PDS) ind. Pilar Box         106         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r         84         06-May-21 A         14-Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21           CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
Stope replacement works cycle 1 (abge 326)         18         09-Aug-21         28-Aug-21           oddstrian Connectivity Facility System A (SYA)         209         07-Apr-21 A         08-Boo-21           Sonstruction Works         209         07-Apr-21 A         28-Bug-21           CONIS0490         Install EAM (ELE.MVAC/PDS) ind. Plar Box         106         07-Apr-21 A         28-Aug-21           CONIS0490         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CONIS0490         Construct superstructure of lit tower to rool level (3mjour, +165.7 to +178.47)         84         06-Meg-21 A         14-Aug-21           CONIS0290         Construct superstructure of lit tower & starcase)         96         16-Aug-21         02-Oec-21 A           CONIS030         Install window (phase 2)         90         16-Aug-21         01-Dec-21 A           CONIS0370         Install window (phase 1)         90         16-Aug-21 A         01-Dec-21 A           CONIS0370         Install window (phase 3)         191         22-Mar-21 A         01-Dec-21 A           CONIS0370         Pred-fil & construct socket H-pile works at SYB-PC1 (gnos, 8dino, 1 team)         72         09-Apr-21 A         08-Ju-21 A           CONIS0370         Pred-fil & construct socket H-pile works at SYB-PC1 (gnos, 8di	CON40650       Slope replacement works cycle 1 (slope 326)       18       09-Aug-21       28-Aug-21         edestrian Connectivity Facility System A (SYA)       209       07-Apr-21 A       08-Dec-21         construction Works       209       07-Apr-21 A       08-Dec-21         construction Works       188       09-Aug-21       28-Aug-21         construction Works       106       07-Apr-21 A       28-Aug-21         construction for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         construction for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         construction for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         construction for power supply & energization (SYA)       48       06-May-21 A       14-Aug-21         construction for power supply & energization (SYA)       48       16-Aug-21       12-Oct-21         construction for power supply & energization (SYA)       48       16-Aug-21       12-Oct-21         construction for power supply & energization (SYA)       48       16-Aug-21       12-Oct-21         construction for power supply & energization (SYA)       48       16-Aug-21       08-Dec-21         construction for power supply & energization (SYA)       48       16-A	
Sedestrian Connectivity Facility System A (SYA)         209         07.4pr.21 A         08-Dec.21           Construction Works         209         07.4pr.21 A         08-Dec.21           Construction Works         106         07.4pr.21 A         28-Aug.21           Construction Works         106         07.4pr.21 A         28-Aug.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         84         06-Aug.21         12-Oc.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         84         06-Aug.21         12-Oc.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         84         16-Aug.21         12-Oc.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         84         16-Aug.21         12-Oc.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         84         16-Aug.21         01-Dec.21           Construct superstructure of lift tower to roof level (3mpour, +165.7 to +178.4sr         96         16-Aug.21         01-Dec.21           Construction Works         190         16-Aug.21         01-Dec.21         01-Dec.21           Construct pling fon at SYB-PC6         74         22-Mar.21 A         11-Nov.21           Construct pling fon at S	Construction Works         209         07-Apr-21 A         08-Dec-21           Construction Works         209         07-Apr-21 A         08-Dec-21           CON50490         Install E&M (ELE/MVAC/PDS) incl. Pilar Box         106         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r         84         06-May-21 A         14-Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
Onstruction Works         209         07-Apr-21A         08-Dec-21           CONS0490         Instal E&M (ELEMVAC/PDS) ind. Pillar Box         106         07-Apr-21A         28-Aug-21           CONS0490         Application for power supply & energization (SYA)         120         07-Apr-21A         28-Aug-21           CONS0490         Construct superstructure of lift tower to rotol (SYA)         120         07-Apr-21A         28-Aug-21           CONS0290         Construct superstructure of lift tower to rotol (SYA)         48         06-May-21A         14-Aug-21           CONS0300         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CONS0300         Instal window (phase 2)         90         16-Aug-21         01-Dec-21           CONS0370         Instal window (phase 1)         90         16-Aug-21         01-Dec-21           CONS1070         Instal window (phase 1)         90         16-Aug-21         01-Dec-21           CONS1070         Instal window (phase 1)         90         11-Nov-21         11-Nov-21           CONS1070         Pre-dril & construct ping find at SYB-PC6         74         22-Mar-21A         11-Nov-21           CONS1070         Pre-dril & construct ping find at SYB-PC1 (gnos, 8d/no, 1 team)         72         29-Apr-21A	Nonstruction Works         209         07-Apr-21 A         08-Dec-21           CON50490         Install E&M (ELE/MVAC/PDS) incl. Pillar Box         106         07-Apr-21 A         28-Aug-21           CON50470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CON50290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r)         84         06-May-21 A         14-Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50300         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
CONS0490         Instal E&M (ELEM/AC/PDS) ind. Pillar Box         106         07-Apr-21A         28-Aug-21         Image: Construct Superstructure of Informer supply & energization (SYA)         120         07-Apr-21A         28-Aug-21         Image: Construct Superstructure of Informer supply & energization (SYA)         120         07-Apr-21A         28-Aug-21         Image: Construct Superstructure of Informer supply & energization (SYA)         120         07-Apr-21A         28-Aug-21         28-Aug-21         Image: Construct Superstructure of Informer to rol Informer t	CON50490       Install E&M (ELE/MVAC/PDS) ind. Pillar Box       106       07-Apr-21 A       28-Aug-21         CON50470       Application for power supply & energization (SYA)       120       07-Apr-21 A       28-Aug-21         CON50290       Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r       84       06-May-21 A       14-Aug-21         CON50270       Erect bridge steel frame for SYA       48       16-Aug-21       12-Oct-21         CON50330       ABWF works (lift tower & starcase)       96       16-Aug-21       08-Dec-21	
CONS0490         Instal E&M (ELEM/AC/PDS) ind. Pillar Box         106         07-Apr-21A         28-Aug-21         Image: Construct Superstructure Superstructure Superstructure Superstructure Superstructure Superstructure Superstructure Superstructure for SYA         120         07-Apr-21A         28-Aug-21         Image: Construct Superstructure Sup	CON50490       Install E&M (ELE/MVAC/PDS) incl. Pillar Box       106       07-Apr-21 A       28-Aug-21       100       100       07-Apr-21 A       28-Aug-21       100       100       07-Apr-21 A       28-Aug-21       100       100       100       07-Apr-21 A       28-Aug-21       100       100       100       07-Apr-21 A       28-Aug-21       100       100       100       100       07-Apr-21 A       28-Aug-21       104-Aug-21       100 <t< td=""><td></td></t<>	
CONS0470         Application for power supply & energization (SYA)         120         07-Apr-21A         28-Aug-21         14-Aug-21           CONS0290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r)         84         06-May-21 A         14-Aug-21           CONS0270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CONS0330         ABWF works (lift tower & starcase)         96         16-Aug-21         01-Dec-21           CONS0390         Instal window (phase 2)         900         16-Aug-21         01-Dec-21           CONS0370         Instal window (phase 2)         191         22-Mar-21 A         11-Nov-21           CONS1070         Pre-dril & construct pling fidn at SYB-PC6         74         22-Mar-21 A         03-Jun-21           CONS1070         Pre-dril & construct pling fidn at SYB-PC1 (9nos, 8d/no, 1 team)         72         09-Apr-21 A         08-Jul-21           CONS1020         Construct pling fidn at SYB-PC	CONS0470         Application for power supply & energization (SYA)         120         07-Apr-21 A         28-Aug-21           CONS0290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r         84         06-May-21 A         14-Aug-21           CONS0270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CONS0330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
CONS0290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r)         84         06-May-21A         14-Aug-21           CONS0270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CONS0330         ABWF works (fit tower & starcase)         96         16-Aug-21         01-Dec-21           CONS0370         Install window (phase 2)         90         16-Aug-21         01-Dec-21           CONS0370         Install window (phase 1)         90         16-Aug-21         01-Dec-21           Construction Works         191         22-Mar-21A         11+Nov-21           Construction Works         191         22-Mar-21A         11+Nov-21           Construction Works         Pre-drill & construct piling fit at SYB-PC6         74         22-Mar-21A         23-Jun-21           Construct piling fit at SYB-PC1 (enos, 8d/mo, 1 team)         72         09-Apr-21A         08-Jul-21           Construct piling fit dat SYB-PC1 (genos, 8d/mo, 1 team)         72         09-Apr-21A         08-Jul-21           Construct piling fit dat SYB-PC1 (genos, 8d/mo, 1 team)         72         09-Apr-21A         08-Jul-21           Construct piling fit dat SYB-PC1 (genos, 8d/mo, 1 team)         72         09-Apr-21A         09-Jul-21           Construct piling fit da	CONS0290         Construct superstructure of lift tower to roof level (3m/pour, +165.7 to +178.45r)         84         06-May-21 A         14-Aug-21           CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50300         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21           CON50330         Install window (phase 2)         90         16-Aug-21         01-Dec-21           CON50370         Install window (phase 1)         90         16-Aug-21         01-Dec-21           construction Works         191         22-Mar-21A         11-Nov-21           CON50370         Pre-drilk construct pling fidn at SYB-PC1 (9nos, 8d/no, 1team)         74         22-Mar-21A         11-Nov-21           CON51270         Pre-drilk construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1team)         74         22-Mar-21A         08-Jul-21           CON51270         Pre-drilk construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1team)         74         22-Mar-21A         08-Jul-21           CON51270         Pre-drilk construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1team)         74         22-Mar-21A         08-Jul-21           CON51270         Pre-drilk construct pling fidn at SYB-PC4         64         22-Apr-21A         08-Jul-21           CON51270         Pre-drilk construct pling fidn at SYB-PC4         64         22-Apr-21A         09-Jul-21           CON51270         TBA <t< td=""><td>CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower &amp; starcase)         96         16-Aug-21         08-Dec-21</td><td></td></t<>	CON50270         Erect bridge steel frame for SYA         48         16-Aug-21         12-Oct-21           CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
CON50330       ABWF works (lift tower & starcase)       96       16-Aug-21       08-Dec-21         CON50390       Instal window (phase 2)       90       16-Aug-21       01-Dec-21         CON50370       Instal window (phase 1)       90       16-Aug-21       01-Dec-21         edestrian Connectivity Facility System B (SYB)       191       22-Mar-21 A       11-Nov-21         Construction Works       191       22-Mar-21 A       11-Nov-21         CON50370       Pre-dril & construct piling fun at SYB-PC6       74       22-Mar-21 A       23-Jun-21         CON51270       Pre-dril & construct piling fun at SYB-PC1 (gnos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21         CON5130       Construct piling fun at SYB-PC2 (pour)       42       12-Apr-21 A       01-Jun-21         CON51150       Pre-dril & construct piling fun at SYB-PC4       64       22-Apr-21 A       09-Jul-21         CON51190       TBA       42       21-May-21       10-Jul-21       In-Jul-21	CON50330         ABWF works (lift tower & starcase)         96         16-Aug-21         08-Dec-21	
CNN50390         Install window (phase 2)         90         16-Aug-21         01-Dec-21           CON50370         Instal window (phase 1)         90         16-Aug-21         01-Dec-21           edestrian Connectivity Facility Sytem B (SYB)         191         22-Mar-21 A         11+Nov-21           CON50370         Pre-dril & construct piling fdn at SYB-PC6         74         22-Mar-21 A         23-Jun-21           CON51270         Pre-dril & construct piling fdn at SYB-PC1 (9nos, 8d/no, 1 team)         72         09-Apr-21 A         08-Jul-21           CON51200         Pre-dril & construct piling fdn at SYB-PC1 (9nos, 8d/no, 1 team)         72         09-Apr-21 A         08-Jul-21           CON51200         Pre-dril & construct piling fdn at SYB-PC1 (9nos, 8d/no, 1 team)         72         09-Apr-21 A         08-Jul-21           CON51270         Pre-dril & construct piling fdn at SYB-PC4         64         22-Apr-21 A         01-Jun-21           CON51150         Pre-dril & construct piling fdn at SYB-PC4         64         22-Apr-21 A         09-Jul-21           CON51790         TBA         42         21-May-21         10-Jul-21         Intervent for the second for t		
CON50390       Install window (phase 2)       90       16-Aug-21       01-Dec-21         CON50370       Install window (phase 1)       90       16-Aug-21       01-Dec-21         edestrian Connectivity Facility Sytem B (SYB)       191       22-Mar-21 A       11+Nov-21         construction Works       191       22-Mar-21 A       11-Nov-21         construction Works       191       22-Mar-21 A       11-Nov-21         construction Works       191       22-Mar-21 A       23-Jun-21         construct piling find at SYB-PC6       74       22-Mar-21 A       08-Jul-21         construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21         construct piling find at SYB-PC2 (2 pour)       42       12-Apr-21 A       01-Jun-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64		
CON50370       Install window (phase 1)       90       16-Aug-21       01-Dec-21         edestrian Connectivity Facility Sytem B (SYB)       191       22-Mar-21 A       11+Nov-21         construction Works       191       22-Mar-21 A       11+Nov-21         construction Works       191       22-Mar-21 A       11+Nov-21         construction Works       191       22-Mar-21 A       23-Jun-21         construct piling find at SYB-PC6       74       22-Mar-21 A       08-Jul-21         construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21         construct piling find at SYB-PC2 (2 pour)       42       12-Apr-21 A       01-Jun-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21         construct piling find at SYB-PC4       64       22-Apr-21 A       09-Jul-21       10-Jul-21         construct piling find at SYB-PC4       42       21-Mar-221       10-Jul-21       10-Jul-21	UNDU390 INSTAILWINDOW (DRASE Z) 90 Th-AUG-21 UT-DEC-21	
dedstrian Connectivity Facility System B (SYB)       191       22-Mar-21 A       11-Nov-21         Onstruction Works       191       22-Mar-21 A       11-Nov-21         CON51070       Pre-dril & construct piling fun at SYB-PC6       74       22-Mar-21 A       23-Jun-21         CON51270       Pre-dril & construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21         CON5130       Construct piling fun at SYB-PC2 (2 pour)       42       12-Apr-21 A       01-Jun-21         CON51150       Pre-dril & construct piling fun at SYB-PC4       64       22-Apr-21 A       09-Jul-21         CON51790       TBA       42       21-Mar-22       10-Jul-21       64       02-Apr-21 A       09-Jul-21		
Image: Construction Works         Image: Construct prime function works         Image: Construct prime functified function works		
CONS1070         Pre-drill & construct piling fdn at SYB-PC6         74         22-Mar-21A         23-Jun-21         And an	edestrian Connectivity Facility System B (SYB)	
CONS1070         Pre-drill & construct piling fdn at SYB-PC6         74         22-Mar-21A         23-Jun-21         And an	Construction Works 191 22-Mar-21 A 11-Nov-21	
CONS1270       Pre-drill & construct socket H-pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       08-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       01-Jun-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       01-Jun-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       01-Jun-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       01-Jun-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       01-Jun-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Apr-21 A       09-Jul-21       09-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Jul-21       09-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Jul-21       09-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Jul-21       09-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team)       72       09-Jul-21       09-Jul-21       Image: Construct pile works at SYB-PC1 (9nos, 8d/no, 1 team) </td <td></td> <td>-</td>		-
CONS2130         Construct pier SYB-P2 (2 pour)         42         12-Apr-21 A         01-Jun-21         64		
CON51150         Pre-drill & construct piling fdn at SYB-PC4         64         22-Apr-21 A         09-Jul-21           CON51790         TBA         42         21-May-21         10-Jul-21         10-Jul-21		
CON51790 TBA 42 21-May-21 10-Jul-21	CON52130         Construct pier SYB-P2 (2 pour)         42         12-Apr-21 A         01-Jun-21	
	CON51150 Pre-drill & construct piling fdn at SYB-PC4 64 22-Apr-21 A 09-Jul-21	
	Actual Work NE/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction	
Actual Work NF/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction	NELZO MACO BOVOIO PINON OL ANDOLOGIA CON ACCURACIÓN A CONCARCIÓN	
NE/2017/00 Borolopinent er Andersen Read Quary erte Inteologia de Berlanderen	Remaining Work Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works	Phase 2
ALZe Hive Berelepinen er Andersen Nede Galary ene interligation Beelgin a Generation	♦ Milestone 3-Month Rolling Programme	
Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase	♦ Milestone 3-Month Rolling Programme	

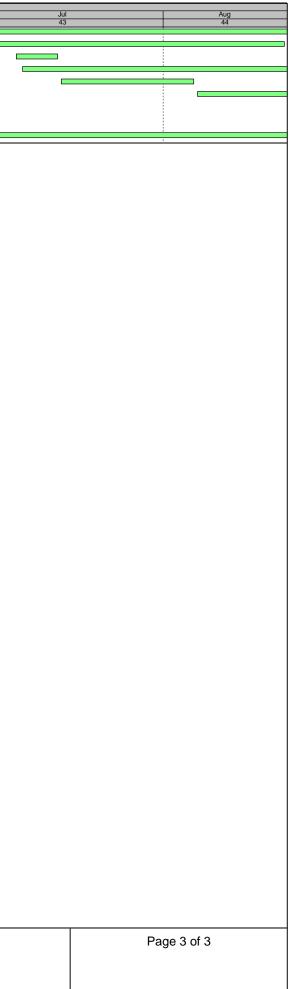


Activity ID	Activity Name	Duration	Start	Finish		2021	
					May	Jun	
					41	42	
CON52170	Construct superstructure SYB-LT1	120	21-Jun-21	11-Nov-21			
CON51690	Construct pile cap SYB-PC6 (120m3)	48	24-Jun-21	19-Aug-21			
CON51450	Install sheet pile at SYB-PC1 (24m L, 4m/d, 1 team)	6	09-Jul-21	15-Jul-21			
CON51730	Construct pile cap SYB-PC4 (52m3)	39	10-Jul-21	24-Aug-21			
CON51470	Excavate & install support at SYB-PC1 (108m3, 25m3/d, 1 team + 12d)	18	16-Jul-21	05-Aug-21			
CON51770	Construct pile cap SYB-PC1 (35m3)	36	06-Aug-21	16-Sep-21			
Bus-Bus Interchange Public	c Toilet (BBI Toilet)	365	30-Sep-20 A	29-Sep-21			
Works related to section 10	A - Establishment Works for Landscape Softworks in Section 10	365	30-Sep-20 A	29-Sep-21			
CON43370	Establishment Works for Landscape Softworks in Section 10 (Portion FI)	365	30-Sep-20 A	29-Sep-21		1 1	

Remaining Work

♦ Milestone

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





### Contract 5 (NE/2019/02)

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

### 3 Months Rolling Programme (May 21 - Aug 21)

Activity	May-2	1	_	Jun-21			L	Jul-21			-	Aug-2		
General	24 - 29	31 - 5	7 - 12	15 - 19	21 - 26	28 - 3	5 - 10	12 - 17	19 - 24	26 -31	2 - 7	9 - 14	16 - 21	23 - 28
Preparation, submission of Construction Impact Assessment														
Preparation, submission of Pre-condition Survey														
1.0 Portion 1														
1.1 Hoarding Erection at PC2 & PC3														
1.2 Installation of Monitoring Instrument Points														
1.3 Demolish of existing upstand wall														
1.4 Tree Felling at Sau Mau Ping Road														
1.5 Erect temporary platform for pre-drilling work at PC2 & PC3														
1.6 Construction of temporary access at E5-PC1														
1.7 Hoarding erection at PC1														
1.8 Erect temporary platform for pre-drilling works at PC1														
1.9 Pre-drilling Works (9 nrs)														
1.10 Form piling platform														
2.0 Portion 2														
2.1 Erection of site hoarding														
2.2 Tree Transplanting Works														
2.3 Installation of monitoring instrument points														
2.4 Trial Pit Excavation														
2.5 Pre-drilling Work (4 nrs)														
2.6 Diversion of existing irrigation system & removal of lamp post														
2.7 Piling Works - 610mm dia. Socketed H-pile (44 nos.)														
3.0 Portion 3														
3.1 Trial pit Excavation														
3.2 Hoarding Erection														
3.3 Installation of Monitoring Instrument Points														
3.4 Tree Felling Works														
3.5 Erect temporary platform for Pre-drilling Works														
3.6 Pre-drilling Works (8 nrs)														
3.7 Form piling platform											I			
4.0 Portion 4														
4.1 Form site entrance														
4.2 Erect site hoarding														
4.3 Site Clearance														
Remark	1			1	1									

Remark:

Tree Felling Works Tree Transplanting Works Pre-drilling Works Piling Works







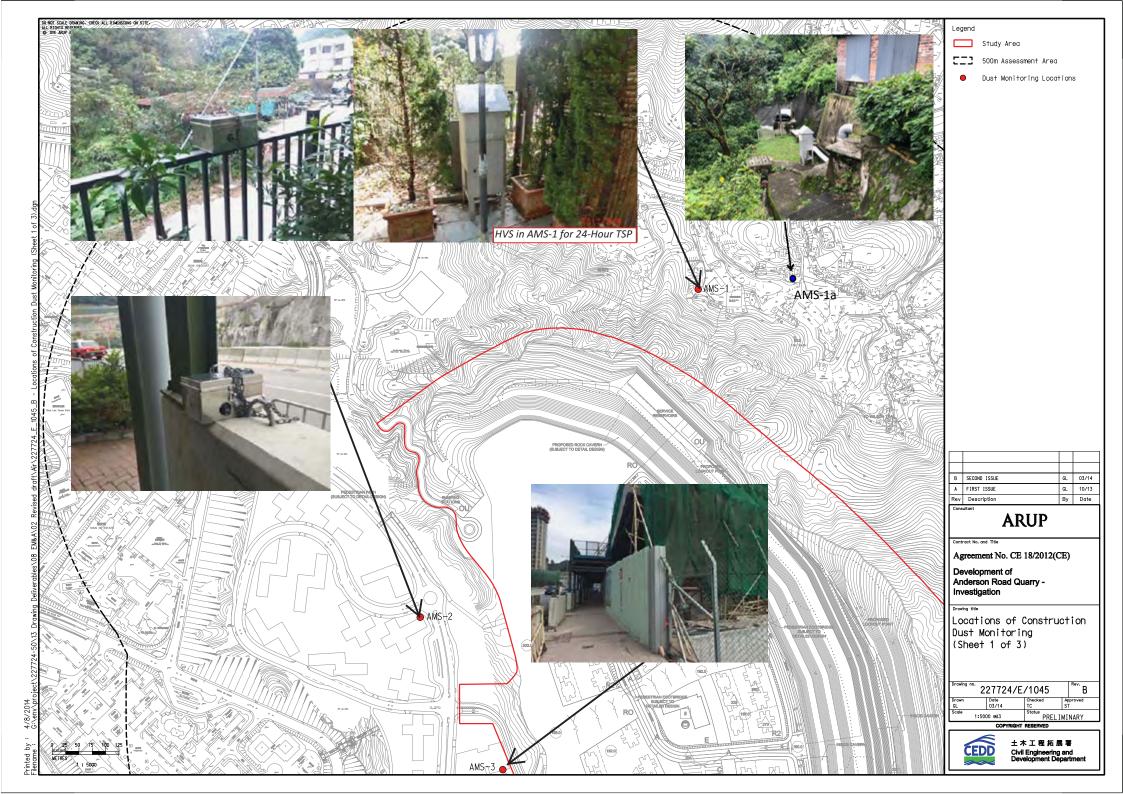


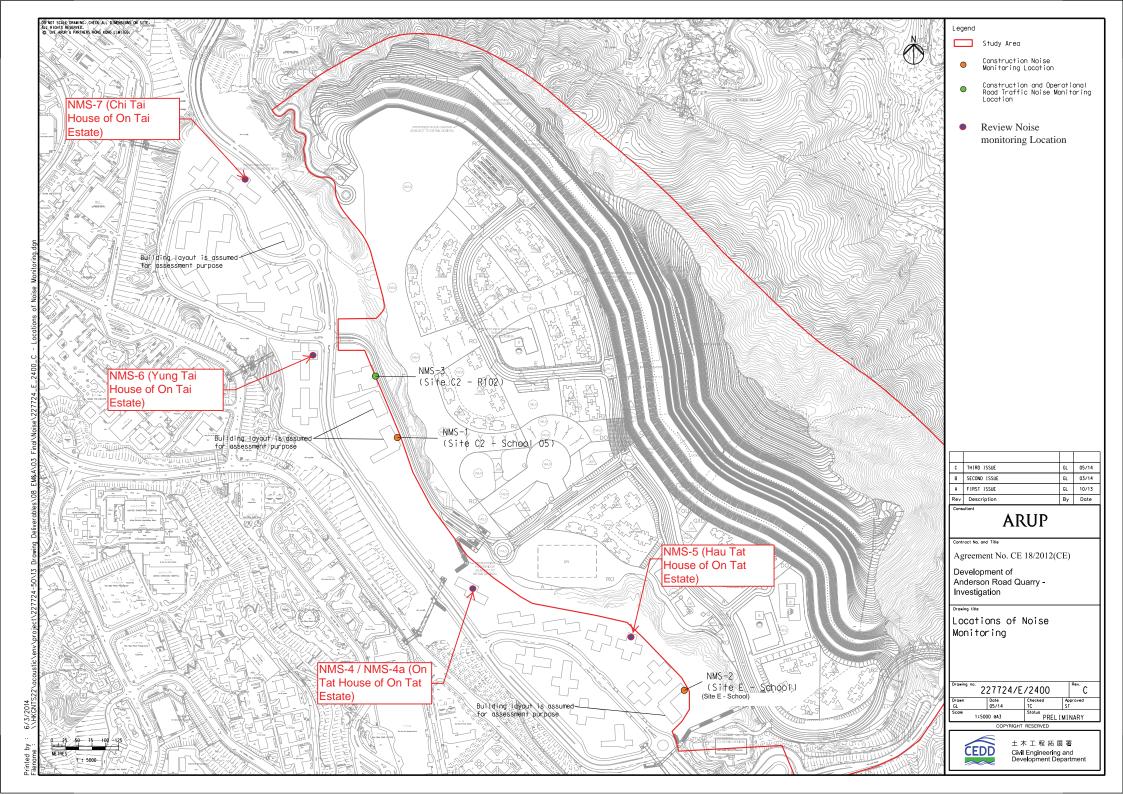
**Appendix D** 

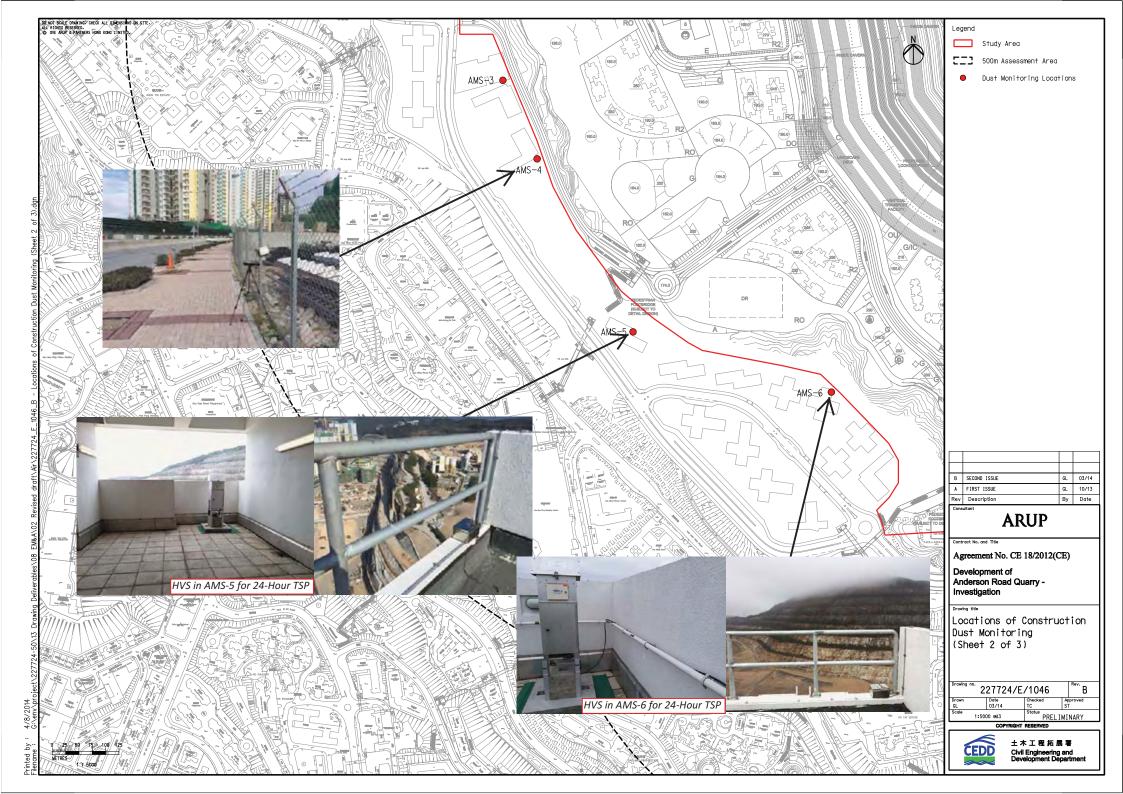
Monitoring Locations for Impact Monitoring

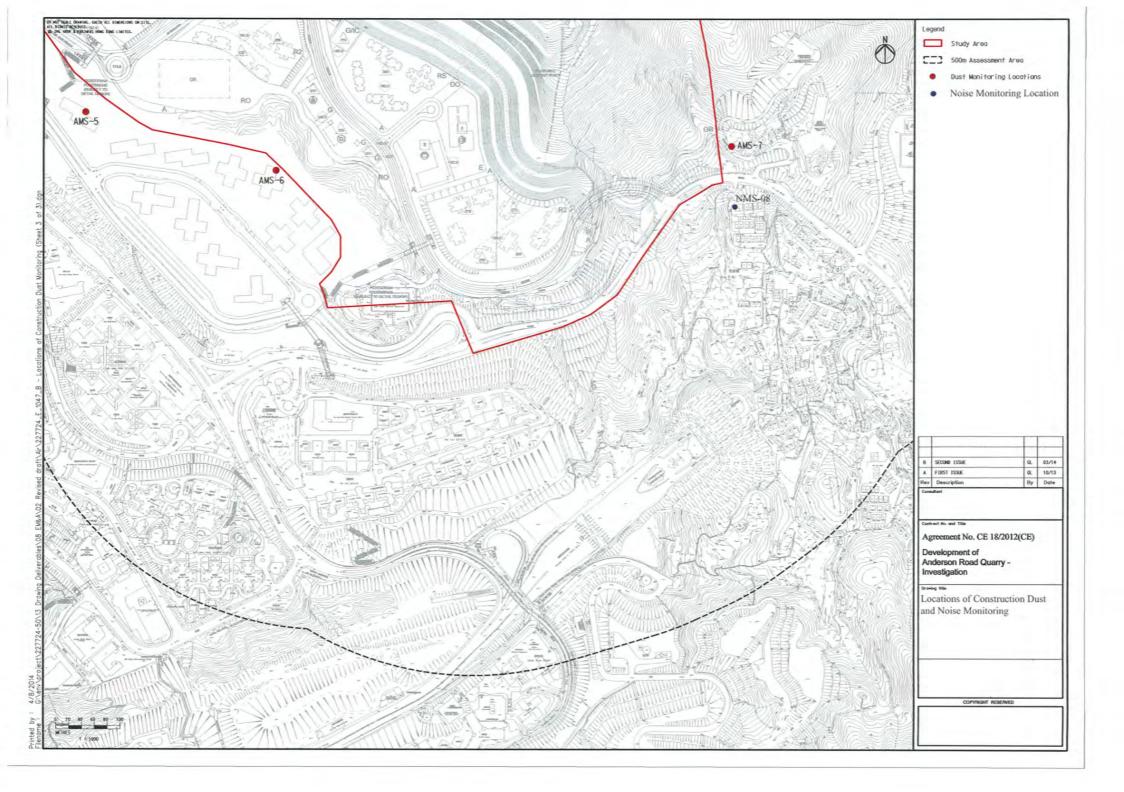


Monitoring Locations for Contract 1 (NE/2016/01)



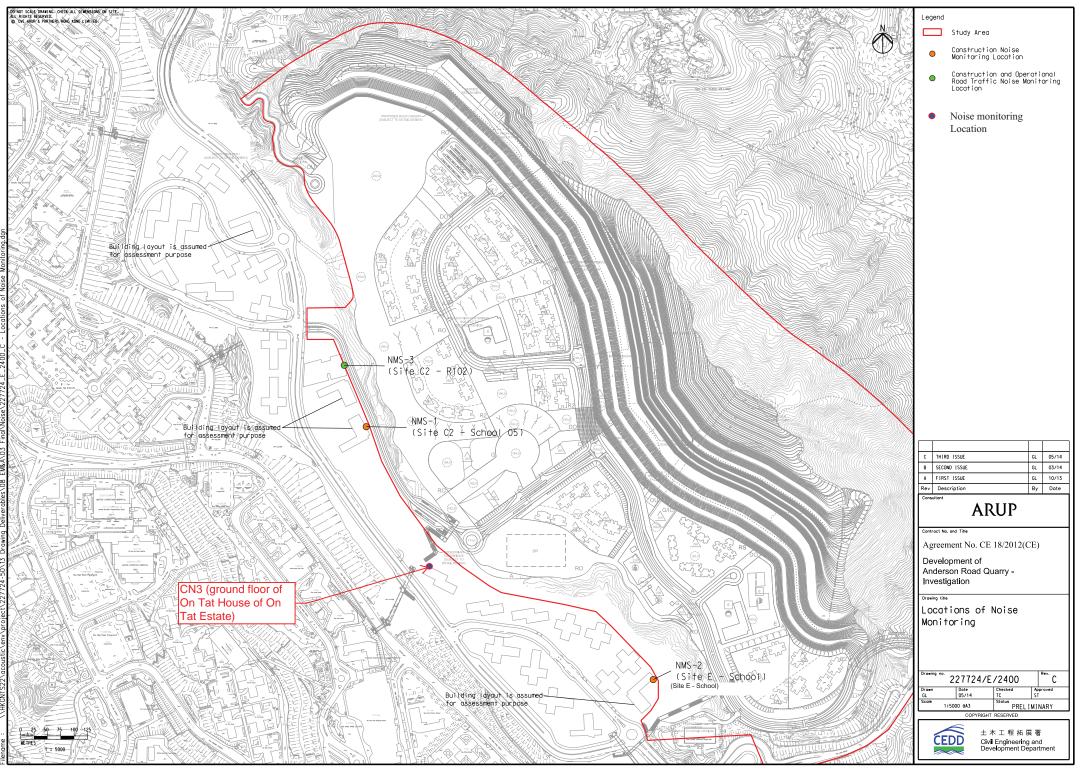






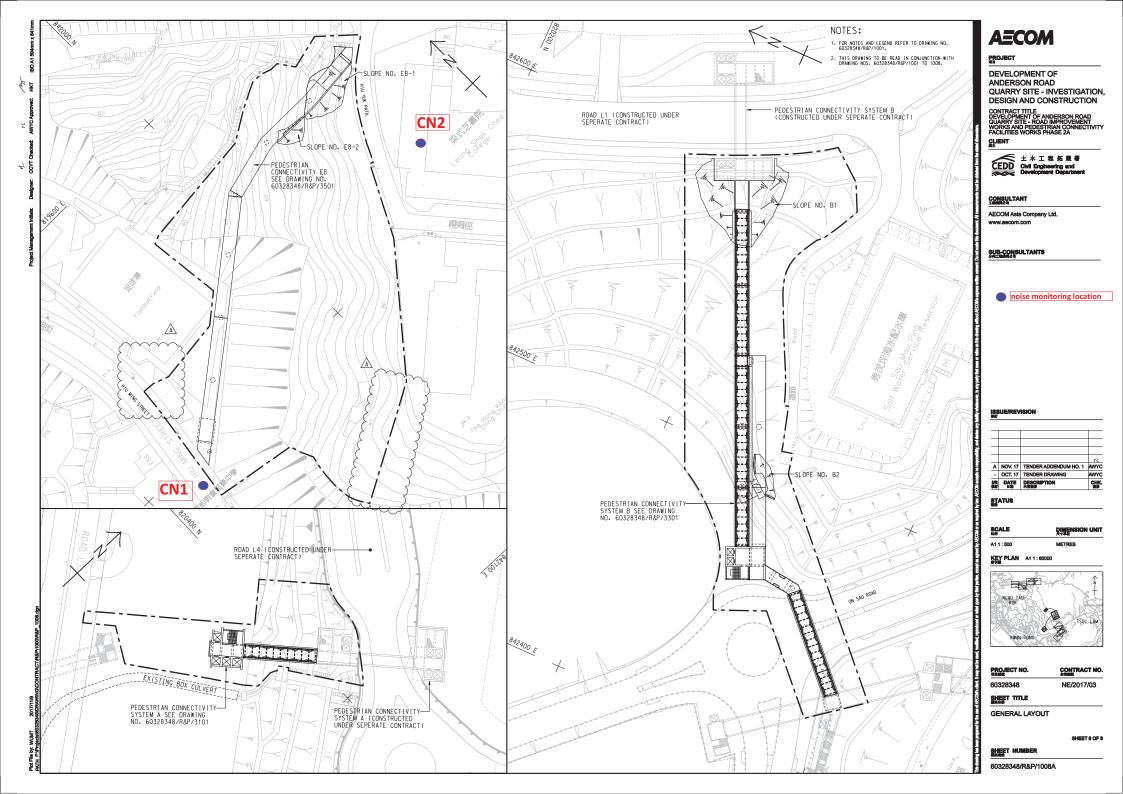


Monitoring Locations for Contract 3 (NE/2017/03)



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

2012





### Appendix E

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

т ,•	N/ 37		7.11					C 1'1	<i>Г</i> А 01	
Location :			Village			,		Calibration:	5-Apr-21	
Location I		AMS 7	· ·	1 (7)77 (		ľ		ration Date:	5-Jun-21	
Model: 113	SCH Higi	h Volum	e Air Sa	ampler TE-5				Technician: N	lr. Fai So	
					CO	NDI	ITIONS			
	C -	T17	n	(1.17.)	10	175	1	C	1.D. (	770 105
1	Se	ea Level I		. ,		17.5			ed Pressure (mm ]	
		Temp	perature	(°C)	2	22.4		10	emperature (K)	295
l										
				C	;ALIBR/	ATIC		E		
				I	TOOL		1			2 1057 (
				Make->			4	-	d Slope ->	2.10574
				Model->		25A	4	Qstd Ir	ntercept ->	-0.00985
				Serial # ->	1941		J			
					CAL	LIBH	RATION			
Plate		H2O (R)	H20	Oatd	T		IC	1	LINEAR	
				Qstd (m <sup>2</sup> /min)	I	-+)			REGRESSION	ΥT
No. 18	(in) 6.3	(in) 6.3	(in) 12.6	(m3/min)	(char 52		corrected			
				1.701			52.34	۲ ۲	-	.8637
13	5.1	5.1	10.2	1.531	48		48.31		Intercept = $-17$	
10	3.8	3.8	7.6	1.322	36		36.23	Cor	rr. coeff. = $0$	.9956
7	2.6	2.6	5.2	1.095	28		28.18			
5	1.6	1.6	3.2	0.860	18		18.12			
Ostaulatia										
		20 (D. /D.	· 1) / TT	1 <i>1</i> 777 \\ 1 ]	f	1				
Qstd = 1/r				./la))-bj			60.00	FLOW	RATE CHART	
IC = I[Sqn	t(Pa/Psto	1)(Tstd/1	a)]							
	1 1 0									
Qstd = sta							50.00			
IC = correction		-	es							/
I = actual	-	-				6	40.00			
m = calibr	-	-				se (IC	40.00			
b = calibra						suoc	20.00			
	-		-	bration ( deg		rest	30.00			
Pstd = act	ual pressi	ure durin	ig calibr	ration (mm	Hg)∥	hart				
						alc	~~ ~~			
	•			npler flow:		Actu	20.00		•	
1/m((I)[S	Sqrt(298/	Tav)(Pav	/760)]-t	))						
							10.00			⊢─────
m = samp										
b = samp	ler interc	ept								
I = chart r	-						0.00	0.500	1.000 1.5	500 2.000
Tav = dail		-					0.001		d Flow Rate (m3/min)	
Pav = dail	ly average	e pressur	e		U					

T a set an a	II.	- T-4 II-					Data of (	7-1:1	F	A Q1		
Location : Location I		u Tat Ho AMS 6	use			N	Date of C Jext Calibra			Apr-21 -Jun-21		
			- Air So	mpler TE-5	170	Ν		Technicia				
	Jen nigi	ii voluiik		mpici 11-5.				cennera	.11. 1.11.	1 41 50		
	Se	a Level I	Pressure	(hPa)	10	)17.5		Corr	rected P	Pressure (m	ım Hg)	763.125
		Temp	erature	(°C)		22.4			Temp	erature (K	.)	295
				C	ALIBR	ATIO	N ORIFICE					
				Make->	TISCH	[			Qstd S	lope ->		2.10574
				Model->'	ГЕ-502	25A		Qs		cept ->		-0.00985
				Serial # ->	1941							
					CA	LIBR/	ATION					
Dlata			1120	Ostil	т		IC				)	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (cha	rt)	IC corrected		Ţ	LINEAF REGRESSI		
18	6.3	6.3	12.6	1.701	<u>(Cha</u> 52		52.34			1000000000000000000000000000000000000		
13	5.1	5.1	10.2	1.531	48		48.31			ercept = -1		
10	3.7	3.7	7.4	1.305	36		36.23			coeff. =	0.9961	
7	2.5	2.5	5	1.073	28		28.18				0.7701	
5	1.6	1.6	3.2	0.860	18		18.12					
		20/D /D	(1) /TT (1	/TT \\ 1 1		60.00		FLO	W RATE	E CHART		
Qstd = 1/r				/1a))-b]		00.00						
IC = I[Sqr	I(Pa/Psid	1)(1Std/13	a)]									
Qstd = sta	ndard flo	w rate				50.00					•	
$Q_{Sta} = sta$ IC = corre			es									
I = actual		-			Û	40.00					/	
m = calibr	ator Qsto	i slope			) est							
b = calibra	ator Qstd	intercept	t		spor							
Ta = actua	al temper	ature dur	ing calil	oration ( deg	K L	30.00	-			•		
Pstd = act	ual press	ure durin	g calibra	ation ( mm H	Ig <b>g</b>				/			
For outpar		alaulatia	n of co-	pler flow:	Actual chart response (IC)	20.00						
1/m(( I )[S	-			-					•			
1/111(( 1 )[.3	9411(290/	1 av )(F av	//UU/]-L	77		10.00						
m = samp	ler slope					10.00						
b = samp		ept										
I = chart r						0.00		0.500			1 500	
Tav = dail	-	e temper	ature			0	0.000	0.500 <b>Standa</b>		000 Rate (m3/min	1.500 )	2.000
Pav = dail												

Location :	O	i Tat Hou	150				Date of (	Calibration:	5-Apr-21			
Location ID : AMS 5						1	Next Calibra		5-Jun-21			
			e Air Sa	mpler TE-5	170			Cechnician: N				
1010001.11					170		ITIONS					
						-						
	Se	ea Level I	Pressure	(hPa)		1017.5		Correcte	ed Pressure (r	nm Hg)	763	.125
		Temŗ	perature	(°C)		22.4		T	emperature (H	K)		295
							-					
				•	CAL	IBRATI	ON ORIFICE					
				[	~	~~~	1					
				Make->			-	-	td Slope ->		-	)574
				Model->			-	Qsta I	ntercept ->		-0.00	1985
				Serial # ->	194	·I						
						CALIB	RATION					
						0/12/2						
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC		LINEA	AR		
No.	(in)	(in)	(in)	(m3/min)	((	chart)	corrected		REGRES	SION		
18	6.3	6.3	12.6	1.701		52	52.34		Slope =	41.692	,9	
13	5.1	5.1	10.2	1.531		46	46.30		Intercept =	-18.589	6	
10	3.9	3.9	7.8	1.340		36	36.23	Сс	orr. coeff. =	0.997	7	
7	2.6	2.6	5.2	1.095		26	26.17					
5	1.6	1.6	3.2	0.860	[	18	18.12					
Calculatio	ns ·							FLOW	RATE CHART	Г		
Qstd = 1/r		$20(P_{2}/P_{3})$	td)(Tstd	/Ta))-bl		60.0	00					7
$Q_{Stat} = 1/1$ IC = I[Sqr	·			[a))-0]								
ic iloqi		.)(1500 1)	u/]			50.	00				/	
Qstd = sta	ndard flo	ow rate								•		
IC = corrections	cted char	rt respon	es			<u>.</u>						
I = actual	chart res	ponse				<b>Actual chart response (IC)</b> 1.05 1.05 1.05	00					
m = calibr	-	-				Suod				~		
b = calibra	-	-				قع 30.0 ۲	00					
				bration ( deg		cha			<b>^</b>			
Pstd = act	ual press	ure durin	ig calibra	ation ( mm H	lg .	Actual 20.0						
For subse	quent ca	lculation	ofsam	oler flow <sup>.</sup>		₹ <sup>20.0</sup>			•			
1/m((I)[S	-		-									
1/111(( 1 )[.	911(290)	1 av <u>A</u> 1 av	//00/]-0	)		10.	00					-
m = samp	ler slope											
b = sampler intercept					0.	00						
I = chart r	esponse					0.	0.000	0.500	1.000	1.500	2.	000
Tav = dail	ly averag	e temper	ature					Standard	Flow Rate (m3/m	nin)		
Pav = dail	y averag	e pressur	e									

Location I		AMS1a		120	]	Next Calibra	
Model:TIS	SCH High V	/olume Air	Sampler 7	E-5170	CONDITIO		Fechnician: Mr. Fai So
			el Pressure mperature	. ,	1017.5 22.4		Corrected Pressure (mm Hg) 763.125 Temperature (K) 295
				CALI	BRATION (	ORIFICE	
Make-> <u>TISCH</u> Model-> <u>TE-5025A</u> Serial # -> <u>1941</u>					]	Qstd Slope ->         2.10574           Qstd Intercept ->         -0.00985	
					CALIBRATI	ON	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	6.2	6.2	12.4	1.688	50	50.32	Slope = 41.8576
13	5.1	5.1	10.2	1.531	46	46.30	Intercept = $-19.7549$
10	3.8	3.8	7.6 5.2	1.322	34	34.22	Corr. coeff. = 0.9951
7 5	2.6 1.6	2.6 1.6	3.2 3.2	1.095 0.860	25 17	25.16 17.11	
IC = I[Sqr	n[Sqrt(H20 t(Pa/Pstd)(7	[std/Ta)]	std/Ta))-b]			60.00	FLOW RATE CHART
IC = corre I = actual	ndard flow cted chart r chart respoi	respones nse				50.00	
	ator Qstd sl					<b>일</b> 40.00	
b = calibrator Qstd intercept Ta = actual temperature during calibration ( deg K ) Pstd = actual pressure during calibration ( mm Hg )						00.04 (IC) 90.05 400000 90.05 40000 90.05 40000 90.05 400000 90.05 400000 90.05 400000 90.05 400000 90.05 400000 90.05 400000000 90.05 40000000000000000000000000000000000	
<b>For subsequent calculation of sampler flow:</b> 1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b)				ow:		Actual ch 00.02	
m = sampler slope b = sampler intercept I = chart response						10.00 —	
Tav = dail	y average to y average p	-				0.00	00 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



RECALIBRATION DUE DATE: January 19, 2022

Certificate of Calibration

Cal. Date:	January 19,	2021	Rootsn	neter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch						Pa: 755.1	
Calibration	Model #:	TE-5025A	Calib	ibrator S/N: 1941				mm Hg
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4830	3.2	2.00	1
	2	3	4	1	1.0420	6.4	4.00	
	3	5	6	1	0.9290	8.0	5.00	
	4	7	8	1	0.8840	8.8	5.50	4
	5	9	10	1	0.7340	12.9	8.00	1
			D	ata Tabulat	ion			Ì
			I. Pa	V Tstd \				1
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> ) Ta)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-axis	s)	Va	(x-axis)	(y-axis)	
	1.0029	0.6762	1.4192		0.9958	0.6715	0.8824	1
	0.9986	0.9583	2.0071		0.9915	0.9516	1.2479	1
	0.9965	1.0726	2.2440		0.9894	1.0650	1.3952	
	0.9954	1.1260	2.3535		0.9883	1.1180	1.4633	
	0.9899	1.3487	2.838		0.9829	1.3391	1.7648	
		m=	2.105			m=	1.31858	
	QSTD	b=	-0.009		QA	b=	-0.00612	
		r=	0.9999	92		r=	0.99992	l.
				Calculation				
			/Pstd)(Tstd/Ta	)		∆Vol((Pa-∆F	P)/Pa)	
	Qstd=	Vstd/∆Time				Va/∆Time		
			For subseque	ent flow rat	e calculation	ns:		
	Qstd=	1/m (( 1/0H(-	$\frac{Pa}{Pstd} \left( \frac{Tstd}{Ta} \right)$	)-b)	Qa=	$1/m \left( \sqrt{\Delta H} \right)$	(Та/Ра))-b)	
1	Standard	Conditions						
Tstd						RECAL	IBRATION	
Pstd		mm Hg		E F		una una a da com	and an entities of	
ALL calibrat		ey	. (120)				nnual recalibratio	
		er reading (in eter reading (					legulations Part	
		perature (°K)					Reference Meth	
		essure (mm					ended Particulat	
b: intercept			01		the	e Atmosphe	re, 9.2.17, page	30
m: slope				L				

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



Sun Creation Engineering Limited

Calibration & Testing Laboratory

# Certificate of Calibration 校正證書

Certificate No. : C205468 證書編號

ITEM TESTED / 送檢項	(Job No. / 序引編號: IC20-1324) Date of Receipt / 收件日期: 22 September 2020	
Description / 儀器名稱 :	Sound Calibrator (EQ087)	
Manufacturer / 製造商 :	Rion	
Model No. / 型號 :	NC-74	
Serial No. / 編號 :	34657231	
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±25)%

#### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 29 September 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

- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA
- The Bruel & Kjaer Calibration Laboratory, Denmark

Tested By 測試

K P Cheuk

Assistant Engineer

Certified By 核證

H C Chan Engineer

Date of Issue 簽發日期

1

30 September 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 Page 1 of 2 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. : C205468 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 CounterC203952CL281Multifunction 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	94.1	± 0.3	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.001	1 kHz ± 1 %	± 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.

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.



輝創工程有限公司

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」	頁目	(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 an	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ling,
		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

0	renk	
KF	Cheuk	

Assistant Engineer

K C Lee Engineer

1 1

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.

本證書所載枝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。



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

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.



輝創工程有限公司

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」	頁目	(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	d Consulting
		Unit A, 20/F., Gold King Industrial Buildi	ng,
		35-41 Tai Lin Pai Road, Kwai Chung, N.T	

#### TEST CONDITIONS / 測試條件

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

#### TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 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

K C Lee Engineer

Certified By 核證 Date of Issue 簽發日期

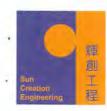
.

6 July 2020

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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 - 枝正及檢測實驗所 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



輝創工程有限公司

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	Setting	Applied	UUT		
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
50 - 130	L <sub>AFP</sub>	Α	F	94.00	1	94.3

#### 6.1.1.2 After Self-calibration

	UUT	Setting		Applie	d Value	UUT	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	
50 - 130	LAFP	Α	F	94.00	1	94.1	± 0.7

#### 6.1.2 Linearity

	UU	Γ Setting	Applie	UUT		
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
50 - 130 LAFP	LAFP	A	F	94.00	1	94.1 (Ref.)
	1000			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.

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c/o 4/F, 1 Hing On Lane, Tuen Muu, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所

0/0 香港新界屯門與安里一號四樓

Tel/電話: (852) 2927 2606 Fax/供真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com

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## Certificate of Calibration 校正證書

Certificate No.: C203573 證書編號

#### 6.2 Time Weighting

#### 6.2.1 Continuous Signal

	UUT Setting			Applied Value		UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec. (dB)
50 - 130	LAFP	Α	F	94.00	1	94.1	Ref.
	L <sub>ASP</sub>		S			94.1	$\pm 0.1$
	L <sub>AIP</sub>		I			94.1	$\pm 0.1$

#### 6.2.2 Tone Burst Signal (2 kHz)

	UUT Setting			App	lied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration	Reading (dB)	Type 1 Spec. (dB)
30 - 110	LAFP	Α	F	106.0	Continuous	106.0	Ref.
	LAFMax			1010	200 ms	105.0	$-1.0 \pm 1.0$
	L <sub>ASP</sub>		S		Continuous	106.0	Ref.
	L <sub>ASMax</sub>				500 ms	102.0	$-4.1 \pm 1.0$

#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	LAFP	A	F	94.00	31.5 Hz	54.8	$-39.4 \pm 1.5$
			-	63 Hz	67.9	$-26.2 \pm 1.5$	
				125 Hz	77.9	$-16.1 \pm 1.0$	
					250 Hz	85.4	$-8.6 \pm 1.0$
					500 Hz	90.9	$-3.2 \pm 1.0$
				1.110	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)
	l				12.5 kHz	89.9	-4.3 (+3.0 ; -6.0)

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### Certificate of Calibration 校正證書

Certificate No.: C203573 證書編號

#### 6.3.2 C-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
50 - 130	L <sub>CFP</sub>	C	F	94.00	31.5 Hz	91.2	$-3.0 \pm 1.5$
					63 Hz	93.4	$-0.8 \pm 1.5$
					125 Hz	94.0	$-0.2 \pm 1.0$
					250 Hz	94.1	$0.0 \pm 1.0$
					500 Hz	94.1	$0.0 \pm 1.0$
					1 kHz	94.1	Ref.
					2 kHz	94.0	$-0.2 \pm 1.0$
					4 kHz	93.3	$-0.8 \pm 1.0$
					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

	UUT	Setting			Applied Value				UUT	IEC 60804
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
30 - 110	30 - 110 LAcq	A	10 sec. 4	4	1	1/10	110.0	100	99.9	± 0,5
						1/10 <sup>2</sup>		90	89.9	± 0.5
			60 sec.	]		1/103	]	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	: ± 0.35 dB
	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	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.

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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

ITEM TESTED / 送檢項	目目	(Job No. / 序引編號: IC20-1324)	Date of Receipt / 收件日期: 19 June 2020
Description / 儀器名稱 Manufacturer / 製造商	:	Integrating Sound Level Meter (EQ009) Brüel & Kjær	
Model No. / 型號	:	2238	
Serial No. / 編號	:	2285722	
Supplied By / 委託者	÷	Action-United Environmental Services and Unit A, 20/F., Gold King Industrial Buildin 35-41 Tai Lin Pai Road, Kwai Chung, N.T.	ng,

#### 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

\*

1

K C Lee Engineer

Assistant Engineer

Certified By 核證 Date of Issue 簽發日期

6 July 2020

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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

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- 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 :
- Sound Pressure Level 6.1
- 6.1.1 Reference Sound Pressure Level
- 6.1.1.1 Before Self-calibration

	UUT	Setting	Applied	UUT		
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
52 - 132	LAFP	A	F	94.00	1	93.8

#### 6.1.1.2 After Self-calibration

_	UUT	Setting		Applied Value		UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec. (dB)
52 - 132	L <sub>AFP</sub>	Α	F	94.00	1	94.0	± 0.7

#### 6.1.2 Linearity

	UU	Γ Setting	Applied Value		UUT	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
52 - 132	L <sub>AFP</sub>	A	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.

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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

UUT Setting			Applied Value		UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Type 1 Spec. (dB)
52 - 132	LAFP	Α	F	94.00	1	94.0	Ref.
	L <sub>ASP</sub>	20	S			94.0	± 0.1
	LAIP		I			94.1	± 0.1

### 6.2.2 Tone Burst Signal (2 kHz)

UUT Setting			Applied Value		UUT	IEC 60651	
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration	Reading (dB)	Type 1 Spec (dB)
32 - 112	LAFP	A	F	106.0	Continuous	106.0	Ref.
	LAFMax				200 ms	105.0	$-1.0 \pm 1.0$
	L <sub>ASP</sub>		S		Continuous	106.0	Ref.
	L <sub>ASMax</sub>				500 ms	102.0	$-4.1 \pm 1.0$

#### 6.3 Frequency Weighting

#### 6.3.1 A-Weighting

UUT Setting				Appl	ied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
52 - 132	LAFP	Α	F	94.00	31.5 Hz	54.5	$-39.4 \pm 1.5$
					63 Hz	67.8	$-26.2 \pm 1.5$
					125 Hz	77.8	$-16.1 \pm 1.0$
					250 Hz	85.3	$-8.6 \pm 1.0$
					500 Hz	90.8	$-3.2 \pm 1.0$
					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)

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# Certificate of Calibration 校正證書

Certificate No.: C203574 證書編號

#### 6.3.2 C-Weighting

UUT Setting					ied Value	UUT	IEC 60651
Range (dB)	Parameter	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Type 1 Spec. (dB)
52 - 132	L <sub>CFP</sub>	С	F	94.00	31.5 Hz	90.9	$-3.0 \pm 1.5$
					63 Hz	93.2	$-0.8 \pm 1.5$
					125 Hz	93.8	$-0.2 \pm 1.0$
					250 Hz	94.0	$0.0 \pm 1.0$
					500 Hz	94.0	$0.0 \pm 1.0$
					1 kHz	94.0	Ref.
					2 kHz	93.8	$-0.2 \pm 1.0$
					4 kHz	93.2	$-0.8 \pm 1.0$
					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

UUT Setting			Applied Value					UUT	IEC 60804	
Range (dB)	Parameter	Frequency Weighting	Integrating Time	Frequency (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)	Reading (dB)	Type 1 Spec. (dB)
32 - 112 LAco	LAcq	L <sub>Aeq</sub> A 10 sec. 60 sec. 5 min.	10 sec.	4	1	1/10	110.0	100	99.9	± 0.5
	1.10				1/10 <sup>2</sup>	0 <sup>2</sup>	90	89.6	± 0.5	
					1/103	1	80	79.1	± 1.0	
			5 min.	1		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	: ± 0.35 dB
II III III IIII	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	$\pm 0.45 \text{ dB}$
	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 %.

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# ALS Technichem (HK) Pty Ltd

## ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





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

#### **General Comments**

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

#### Signatories

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

Signatories	Position	
Richard Fung	Managing Director	

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

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

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

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

CLIENT

PROJECT

: HK2102507

<sup>1</sup> 1 <sup>1</sup> ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



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

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

### **Equipment Calibrated:**

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

#### Standard Equipment:

oler
tion room)

## Equipment Verification Results:

Testing Date:

31 December 2020

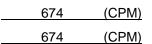
0.0022

0.9895

8 January 2021

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

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



#### 0.07 0.06 0.05 0.04 0.03 0.02 y = 0.0022x + 0.0016 R<sup>2</sup> = 0.9791 0.01 0

5

0

10

15

20

25

30

#### Remarks:

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

Linear Regression of Y or X

Slope (K-factor):

Date of Issue

**Correlation Coefficient** 

2. Factor 0.0022 should be apply for TSP monitoring

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



## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Bu Location ID : Calibration Room	Date of Calibra Next Calibration I			
	CON	DITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1015.2 25.5		Corrected Pressure (mm H Temperature (K)	Hg) 761.4 299
	CALIBRA	TION ORIFICE		
Make Mode Calibration Date	l-> 5025A	5A Qstd Intercept ->		2.03014 -0.04616 7-Feb-21
	CALI	BRATION		
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/mi		IC corrected	LINEAR REGRESSION	I
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5         56           5         49           5         42           4         32	56.00 49.00 42.00 32.00 21.00	Slope = $38.$ Intercept = $-11.$	0056 6655 9991
<b>Calculations :</b> Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (	t deg K )	50.00	FLOW RATE CHART	
Pstd = actual pressure during calibration ( r For subsequent calculation of sampler flor 1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure	1	0.00	0.500 1.000 1. Standard Flow Rate (m3/min)	500 2.000

		PL.		-			RECALIB DUE D	
						F		
viro			100		1	L	February	1, 2021
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2		
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
Γ	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	
	3	5	6	1	0.8780	8.0	5.00	
	4	7	8	1	0.8340	8.8	5.50	
L.	5	9	10	1	0.6900	12.8	8.00	
[			D	Data Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa V	$\Delta H(Ta/Pa)$	
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)	
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896	
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581	
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066	
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753	
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124	
	QSTD	b=	-0.046		QA	b=	-0.02917	
	4515	r=	0.9999		Sec.	r=	0.99995	
ī				Calculation				
F	Vstd=	ΔVol(/Pa-ΔP	)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)	
F		Vstd/ATime				Va/ATime	// 4/	
			For subseque	ent flow rat				
[	Qstd=	1/m (( \\ \[ \[ \] \  \  \  \  \  \  \  \  \  \  \  \  \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$	))-b)		//	(Ta/Pa))-b)	
		Conditions						-
Tstd:	298.15					RECALI	BRATION	
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998
AH: calibrato			n H2O)				egulations Part 50 to	
ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)							Reference Method fo	
ΔP: rootsmet	Ta: actual absolute temperature (°K)							
	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in

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# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES

#### SUB-CONTRACTING REPORT



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

#### **General Comments**

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

#### Signatories

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

Signatories	Position	
Kiland Jong		
Richard Fung	Managing Director	

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

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

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

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

CLIENT

PROJECT

: HK2111342

<sup>1</sup> 1 <sup>1</sup> ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2111342-001	S/N: 456658	AIR	17-Mar-2021	S/N: 456658

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

### **Equipment Calibrated:**

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

#### Standard Equipment:

Standard Equipment:	Higher Volume Sampler			
Location & Location ID:	AUES office (calibration room)			
Equipment Ref:	HVS 018			
Last Calibration Date:	13 January 2021			

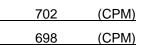
## Equipment Verification Results:

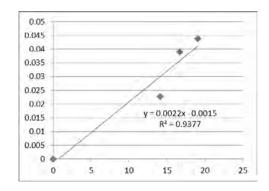
Verification Date:

12 March 2021

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

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





#### Linear Regression of Y or X

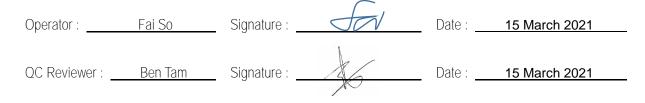
Slope (K-factor):	0.0022
Correlation Coefficient (R)	0.9683
Date of Issue	15 March 2021

## Remarks:

## 1. Strong Correlation (R>0.8)

2. Factor 0.0022 should be apply for TSP monitoring

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



## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, Location ID : Calibration Room		libration: 13-Jan-21 ion Date: 13-Apr-21		
	CONE	DITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1019.8 13.4		Corrected Pressure (n Temperature (K	C,
CAI	IBRAT	ION ORIFICE		
	ISCH 025A Feb-20		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALIB	RATION		
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/min) (d	I chart)	IC corrected	LINEA REGRESS	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	55 49 42 32 22	56.28         Slope =         39           50.14         Intercept =         -13		39.9777 -15.3902 0.9972
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration ( deg K Pstd = actual pressure during calibration ( mm Hg ] For subsequent calculation of sampler flow: 1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature	05 04 05 05 05 01 01 01	0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00	FLOW RATE CHAR	1.500 2.000

		PL.		-			RECALIB DUE D	
						F		
viro			100		1	L	February	1, 2021
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2		
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
Γ	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	
	3	5	6	1	0.8780	8.0	5.00	
	4	7	8	1	0.8340	8.8	5.50	
L.	5	9	10	1	0.6900	12.8	8.00	
[			D	Data Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa V	$\Delta H(Ta/Pa)$	
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)	
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896	
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581	
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066	
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753	
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124	
	QSTD	b=	-0.046		QA	b=	-0.02917	
	4515	r=	0.9999		Sec.	r=	0.99995	
ī				Calculation				
F	Vstd=	ΔVol(/Pa-ΔP	)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)	
F		Vstd/ATime				Va/ATime	// 4/	
			For subseque	ent flow rat				
[	Qstd=	1/m (( \\ \[ \[ \] \  \  \  \  \  \  \  \  \  \  \  \  \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$	))-b)		//	(Ta/Pa))-b)	
		Conditions						-
Tstd:	298.15					RECALI	BRATION	
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998
AH: calibrato			n H2O)				egulations Part 50 to	
ΔH: calibrator manometer reading (in H2O) ΔP: rootsmeter manometer reading (mm Hg)							Reference Method fo	
ΔP: rootsmet	Ta: actual absolute temperature (°K)							
	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in

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# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES

#### SUB-CONTRACTING REPORT



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

#### **General Comments**

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

#### Signatories

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

Signatories	Position	
Kichard Juny		
Richard Fung	Managing Director	

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

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

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CLIENT

PROJECT

: HK2111341

<sup>1</sup> 1 <sup>1</sup> ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2111341-001	S/N: 3Y6505	AIR	17-Mar-2021	S/N: 3Y6505

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

### **Equipment Calibrated:**

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

#### Standard Equipment:

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

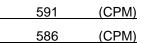
## Equipment Verification Results:

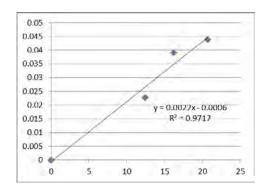
Verification Date:

12 March 2021

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

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





#### Linear Regression of Y or X

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

### Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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



## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, Location ID : Calibration Room	hung		libration: 13-Jan-21 ion Date: 13-Apr-21	
	CONE	DITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1019.8 13.4		Corrected Pressure (n Temperature (K	C,
CAI	IBRAT	ION ORIFICE		
	ISCH 025A Feb-20		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALIB	RATION		
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/min) (d	I chart)	IC corrected	LINEA REGRESS	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	55 49 42 32 22	56.28 50.14 42.98 32.75 22.51	Slope =	39.9777 -15.3902 0.9972
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration ( deg K Pstd = actual pressure during calibration ( mm Hg ] For subsequent calculation of sampler flow: 1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature	05 04 05 05 05 01 01 01	0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00	FLOW RATE CHAR	1.500 2.000

		PL.		-			RECALIB DUE D	
						F		
viro			100		1	L	February	1, 2021
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2		
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
Γ	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	
	3	5	6	1	0.8780	8.0	5.00	
	4	7	8	1	0.8340	8.8	5.50	
L.	5	9	10	1	0.6900	12.8	8.00	
ſ			D	Data Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa V	$\Delta H(Ta/Pa)$	
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)	
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896	
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581	
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066	
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753	
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124	
	QSTD	b=	-0.046		QA	b=	-0.02917	
	4515	r=	0.9999		Sec.	r=	0.99995	
ī				Calculation				
F	Vstd=	ΔVol(/Pa-ΔP	)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)	
F		Vstd/ATime				Va/ATime	// 4/	
			For subseque	ent flow rat				
[	Qstd=	1/m (( \\ \[ \[ \] \  \  \  \  \  \  \  \  \  \  \  \  \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$	))-b)		//	(Ta/Pa))-b)	
		Conditions						
Tstd: 298.15 °K					RECALI	BRATION		
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998
AH: calibrato			n H2O)				egulations Part 50 to	
$\Delta$ H: calibrator manometer reading (in H2O) $\Delta$ P: rootsmeter manometer reading (mm Hg)							Reference Method fo	
ΔP: rootsmet	Ta: actual absolute temperature (°K)							
	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in

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# ALS Technichem (HK) Pty Ltd

## **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES

#### SUB-CONTRACTING REPORT



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

#### **General Comments**

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

#### Signatories

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

Signatories	Position	
Kidend Jong		
Richard Fung	Managing Director	

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

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

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CLIENT PROJECT : HK2102513

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



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

 ID
 Type
 N: 3Y6502
 AIR
 15-Jan-2021
 S/N: 3Y6502

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

### **Equipment Calibrated:**

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

#### **Standard Equipment:**

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

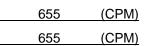
## Equipment Verification Results:

Testing Date:

31 December 2020

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

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



#### 0.07 0.06 0.05 0.04 0.03 y = 0.0022x + 0.0034 0.02 R<sup>2</sup> = 0.9787 0.01 0 0 5 10 15 20 25 30

### Slope (K-factor):

Linear Regression of Y or X

Correlation Coefficient Date of Issue

0.0022	-
0.9893	_
8 January 2021	

## Remarks:

## 1. Strong Correlation (R>0.8)

2. Factor 0.0022 should be apply for TSP monitoring

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



## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Bu Location ID : Calibration Room	ilding, Kwai C	Chung	Date of Calibration: 8-Oct-20 Next Calibration Date: 8-Jan-21			
	CON	DITIONS				
Sea Level Pressure (hPa) Temperature (°C)	1015.2 25.5		Corrected Pressure (mm H Temperature (K)	Hg) 761.4 299		
	CALIBRA	TION ORIFICE				
Make Mode Calibration Date	l-> 5025A	]	Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21		
	CALI	BRATION				
Plate H20 (L)H2O (R) H20 Qstd No. (in) (in) (in) (m3/mi		IC corrected	LINEAR REGRESSION	I		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5         56           5         49           5         42           4         32	56.00 49.00 42.00 32.00 21.00	Slope = $38.$ Intercept = $-11.$	0056 6655 9991		
<b>Calculations :</b> Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (	t deg K )	50.00	FLOW RATE CHART			
Pstd = actual pressure during calibration ( r For subsequent calculation of sampler flor 1/m(( I )[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure	1	0.00	0.500 1.000 1. Standard Flow Rate (m3/min)	500 2.000		

		PL.		-			RECALIB DUE D	
						F		
viro			100		1	L	February	1, 2021
	February 7,	/	Calibration C Rootsm		on Informat	ion Ta: 2		
Operator: . Calibration N	Jim Tisch	TE-5025A	Calik	orator S/N:	1612	Pa: 7	'45.5 mm	Hg
Calibration	10del #.	1E-3023A	Callu	rator s/in:	1012			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
Γ	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	
	3	5	6	1	0.8780	8.0	5.00	
	4	7	8	1	0.8340	8.8	5.50	
L.	5	9	10	1	0.6900	12.8	8.00	
[			D	Data Tabulat	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa V	$\Delta H(Ta/Pa)$	
l	(m3)	(x-axis)	(y-axis		Va	(x-axis)	(y-axis)	
1	0.9866	0.7186	1.407		0.9957	0.7252	0.8896	
	0.9824	1.0004	1.990		0.9914	1.0096	1.2581	
ŀ	0.9802	1.1165	2.225		0.9893	1.1267	1.4066	
ŀ	0.9792	1.1741	2.334		0.9882	1.1849	1.4753	
F	0.5755	1.4114 m=	2.015		0.9020	1.4244 m=	1.27124	
	QSTD	b=	-0.046		QA	b=	-0.02917	
	4515	r=	0.9999		Sec.	r=	0.99995	
ī				Calculation				
F	Vstd=	ΔVol(/Pa-ΔP	)/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	(Pa)	
F		Vstd/ATime				Va/ATime	// 4/	
			For subseque	ent flow rat				
[	Qstd=	1/m (( \\ \[ \[ \] \  \  \  \  \  \  \  \  \  \  \  \  \	$\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)$	))-b)		//	(Ta/Pa))-b)	
		Conditions						
Tstd:	298.15					RECALI	BRATION	
Pstd:		mm Hg Key			US EPA reco	ommends and	nual recalibration pe	r 1998
ΔH: calibrato			n H2O)				egulations Part 50 to	
		eter reading						
ΔP: rootsmet					Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in			
ΔP: rootsmet Ta: actual abs Pa: actual bas	solute temp				Determinat	ion of Suspen	nded Particulate Ma	tter in

Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



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

## L 000552



Appendix F

## **Event and Action Plan**

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



#### Event and Action Plan for Construction Noise

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



Appendix G

**Impact Monitoring Schedule** 

## **Impact Monitoring Schedule for the Reporting Period**

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

✓	Monitoring Day
	Sunday or Public Holiday

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

## **Impact Monitoring Schedule for next Reporting Period**

$\checkmark$	Monitoring Day
	Sunday or Public Holiday

Appendix H

**Database of Monitoring Result** 



#### 24-HOUR TSP MONITORING RESULT DATABASE

	Monitoring SAMPLE	Data for A	AMS1a												
	SAMPLE														-
1	IIIMBED	ELAPSED TIME			CHART READING TEMP			AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WE	EIGHT (g)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)		MAX		(°C)	(hPa)	(m <sup>3</sup> /min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
~			23371.72		40	40	40	26.6	1012.9	1.42	2052	2.7865	2.912	0.1255	61
			23395.72		40	40	40	29.2	1008.4	1.42	2043	2.7886	2.8516	0.063	31
17-May-21	27020	23395.72	23419.72	1440.00	40	40	40	30.4	1009.8	1.42	2041	2.8301	2.8815	0.0514	25
22-May-21	27098	23419.72	23443.72	1440.00	40	40	40	30.5	1007	1.42	2039	2.8221	2.8696	0.0475	23
28-May-21	27100	23443.72	23467.72	1440.00	40	40	40	30.6	1009.6	1.42	2040	2.835	2.8807	0.0457	22
24-hour TSP N	Aonitoring	Data for A	AMS-5												
	SAMPLE JUMBER -		APSED TIM			RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WE		DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)			AVG	(°C)	(hPa)	(m <sup>3</sup> /min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
2		10560.09		1440.00	34	34	34.0	26.6	1012.9	1.26	1813	2.9056	3.0132	0.1076	59
2		10584.09		1440.00	34	34	34.0	29.2	1008.2	1.25	1805	2.7918	2.8278	0.0360	20
,			10632.09		34	34	34.0	30.4	1009.8	1.25	1804	2.8290	2.8898	0.0608	34
2			10656.09		34	34	34.0	30.5	1007	1.25	1802	2.8155	2.8555	0.0400	22
28-May-21	27136	10656.09	10680.09	1440.00	34	34	34.0	31.1	1018.6	1.26	1808	2.6452	2.6890	0.0438	24
24-hour TSP M	Aonitoring	Data for A	AMS-6												
	SAMPLE JUMBER -		APSED TIM	ſE	CHART READIN		DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WE	EIGHT (g)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)		MAX	AVG	(°C)	(hPa)	(m <sup>3</sup> /min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
~			15788.03		34	34	34.0	26.6	1012.9	1.23	1769	2.9085	3.0482	0.1397	79
11-May-21	26798	15788.03	15812.03	1440.00	34	34	34.0	29.2	1008.4	1.22	1761	2.7966	2.8334	0.0368	21
17-May-21	27018	15812.03	15836.03	1440.00	34	34	34.0	30.4	1009.8	1.22	1759	2.8062	2.8556	0.0494	28
22-May-21	27098	15836.03	15860.03	1440.00	34	34	34.0	30.5	1007	1.22	1758	2.8243	2.8469	0.0226	13
28-May-21	27137	15860.03	15884.03	1440.00	34	34	34.0	31.1	1018.6	1.22	1763	2.6712	2.7449	0.0737	42
24-hour TSP M	Aonitoring	Data for A	AMS-7												
	SAMPLE JUMBER		APSED TIM			RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WE		DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)		MAX	AVG	(°C)	(hPa)	(m <sup>3</sup> /min)	(std m <sup>3</sup> )	INITIAL	FINAL	(g)	$(\mu g/m^3)$
			11064.21	1440.00	36	36	36.0	26.6	1012.9	1.28	1849	2.8056	2.8702	0.0646	35
2					36	36	36.0	29.2	1008.4	1.28	1841	2.7923	2.8299	0.0376	20
17-May-21	27019				36	36	36.0	30.4	1009.8	1.28	1840	2.8164	2.8646	0.0482	26
22-May-21	27097	11112.21	11136.21	1440.00	36	36	36.0	30.5	1007	1.28	1838	2.8213	2.8586	0.0373	20
28-May-21	27133	11136.21	11160.21	1440.00	36	36	36.0	29.8	1020.6	1.28	1847	2.6601	2.6978	0.0377	20



#### NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Measu	uremen	nt Resul	lts (dB)	of NMS	52																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Lag20min	Limit
Date	Start Time	Leq,	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-May-21	11:05	60.8	62.1	58.9	61.1	62.1	60.1	61	61.8	59.9	60.6	61.5	59.7	61.8	63.8	59.7	61.4	62.5	60	61	70
14-May-21	11:11	61.3	62.8	59.7	61.2	61.9	59.9	62.7	63.3	61.5	62.3	63	61.2	61.9	62.6	61	61.9	62.8	60.9	62	70
20-May-21	11:03	65.5	63.4	59.9	61.5	63.4	59.5	63.8	67.5	56.1	57.9	59.1	56.2	58.4	60	56.9	58	59.6	56.2	62	70
26-May-21	13:04	63.8	66.2	60.6	64.6	67.1	61.4	65.6	68.2	62.3	63.2	66.1	60.9	62.4	65.2	59.8	64.7	67.6	63.5	64	70

Noise Measu	uremei	nt Resu	lts (dB)	of NM	S3																
	Start	1st	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	min)	Log20min	Limit
Date	Start Time	Leq,	L10,		Leq,	- )	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	/	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-May-21	13:00	61.8	63.8	59.8	60.7	61.7	59.6	60.6	61.8	59.2	60.3	61.3	59.3	62.9	66.5	59.1	64.4	66.8	60.9	62	75
14-May-21	16:00	66.7	69.8	63.3	64.6	65.6	55.1	61.7	63.6	59.1	60.4	62.6	57.1	61.1	63.3	57.4	63.6	66.9	59.5	64	75
20-May-21	15:06	61.5	63.1	59.6	61.8	62.9	60.6	61.7	62.9	60.2	61.6	63.0	59.9	61.9	63.1	60.6	62.2	64.0	60.2	62	75
26-May-21	13:45	64.8	68.4	61.0	63.5	65.1	61.4	63.5	66.3	60.1	65.5	68.7	60.4	64.5	66.5	60.0	63.6	65.0	60.8	64	75

Noise Meas	sureme	ent Resu	ılts (dB	) of NM	[S4a																
	Stant	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	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-May-21	9:30	67.6	70.2	63.6	70.3	72.9	66.1	68.2	70.5	63.9	66.8	69.3	59.7	67.1	70.4	59.9	66.8	69.3	64.2	68	75
14-May-21	9:30	67.8	70.3	64.4	69.1	71.5	65.7	67.9	70.8	63.6	68.1	70.1	65.6	67.7	69.7	65.2	67.1	69.3	64.3	68	75
20-May-21	9:23	67.4	69.3	65.4	67.8	70	65.2	67.9	69.5	66	68.5	70.4	66.3	67.5	69.2	65	67.8	69.9	65.4	68	75
26-May-21	14:29	69	70.7	65.6	70.4	73.6	66	67.8	69.6	64.9	68.8	70.4	64.4	67.4	68.8	65.6	66.1	67.3	64.9	68	75

Noise Measu	ırement	Result	s (dB) o	f NMS5	5																
	Stant	1st	Leq (5r	nin)	2nd	Leq (51	nin)	3rd	Leq (5r	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)
3-May-21	10:21	67	68.9	63.8	66.7	69.4	61.5	68.1	70.6	64.2	69	71.8	63	65.8	68.1	61.6	66.6	69	63.2	67	75
14-May-21	10:27	65.4	68.7	59.5	66.5	69.3	61.8	67.2	71	61.5	67	69.5	63.4	66.7	69.4	62.6	66.2	69.3	61.9	67	75
20-May-21	10:17	67.2	69.2	64.4	65.9	67.2	63.4	65.8	67.5	63.7	66.6	68.3	64.8	65.6	67.8	63.3	65.9	67.6	63.6	66	75
26-May-21	15:09	65.8	67.7	63.5	66.3	68.2	64.1	66.1	68.4	63.4	65.5	68.4	61.7	64.2	66	62.1	64.7	66.8	62.5	65	75

Noise Measu	ıremen	nt Resul	lts (dB)	of NMS	56																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (51	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	min)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-May-21	14:15	67.6	69.3	65	68.1	71.1	62.4	67.6	70.1	64.1	66.8	69.4	63.9	66.5	68.4	61.7	67.4	69.9	63.7	67	75
14-May-21	15:15	68.8	71	64.8	69.2	71.5	66.3	68.2	70.9	64.5	68.6	70.7	65.6	69.3	71.6	65.3	67.4	69.6	64.8	69	75
20-May-21	15:41	63.5	65.5	61	63.1	65.5	60.6	63.5	65.8	60.4	64.3	66.2	61.9	63.9	65.9	61.4	64.2	66.7	61	64	75
26-May-21	15:51	69.1	71.2	66.3	70.7	72.8	67.7	70.5	72.9	67.8	71.3	74	63.7	70.2	73.8	63.9	70.4	73.6	65.9	70	75

Noise Measu	uremer	nt Resul	lts (dB)	of NMS	S7																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Log20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
3-May-21	15:05	65	67.3	61.8	65.9	68.7	62	66.5	68.3	64.2	64.9	66.5	63.1	65.2	66.8	63.3	66.1	68.9	62.5	66	75
14-May-21	14:25	68.7	70	65.7	70.3	71.9	66	69.6	71.5	67	68.8	71.3	65.9	69.2	71.8	65.9	68	70.9	64.9	69	75
20-May-21	16:27	67.1	69.7	64	68.1	70.7	63.9	67	69.4	64	64.8	66.4	62.9	65.2	67.5	62.6	66.3	68	64.3	67	75
26-May-21	16:41	60.5	63.5	56.5	60.9	63.5	56.5	61.8	54.5	57	63	66.5	57.5	59.7	62.5	55.5	61.4	6.5	57	61	75

Noise Meas	uremer	nt Resul	ts (dB)	of NMS	<b>58</b>																
	Start.	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (5r	nin)	6th	Leq (51	nin)	I. a a 20i	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
7-May-21	13:12	63.6	66.6	57.3	59.2	63.2	56.9	58.3	62.9	55.6	64.7	68.4	58.3	56.7	60.2	56.9	61.1	63.6	56.5	62	75
13-May-21	11:27	65.1	67	63	66	68.2	63.1	66.3	68.8	63.6	66.4	70	62.4	69.5	73	61.8	66.3	69.3	61.7	67	75
22-May-21	9:10	62.0	63.0	60.5	64.0	65.0	61.5	62.9	64.5	61.0	64.8	64.5	61.0	62.9	63.5	60.0	62.0	63.0	61.0	63	75
25-May-21	15:26	63.1	65	61	64	66.2	61.1	64.3	66.8	61.6	64.4	68	60.4	67.5	71	59.8	64.3	67.3	59.7	65	75
31-May-21	10:46	62.9	64.5	59	61.5	63	58	62.9	64	57.5	61.9	62.5	57	61	64.5	58.5	62.5	64.5	58.5	62	75



#### NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

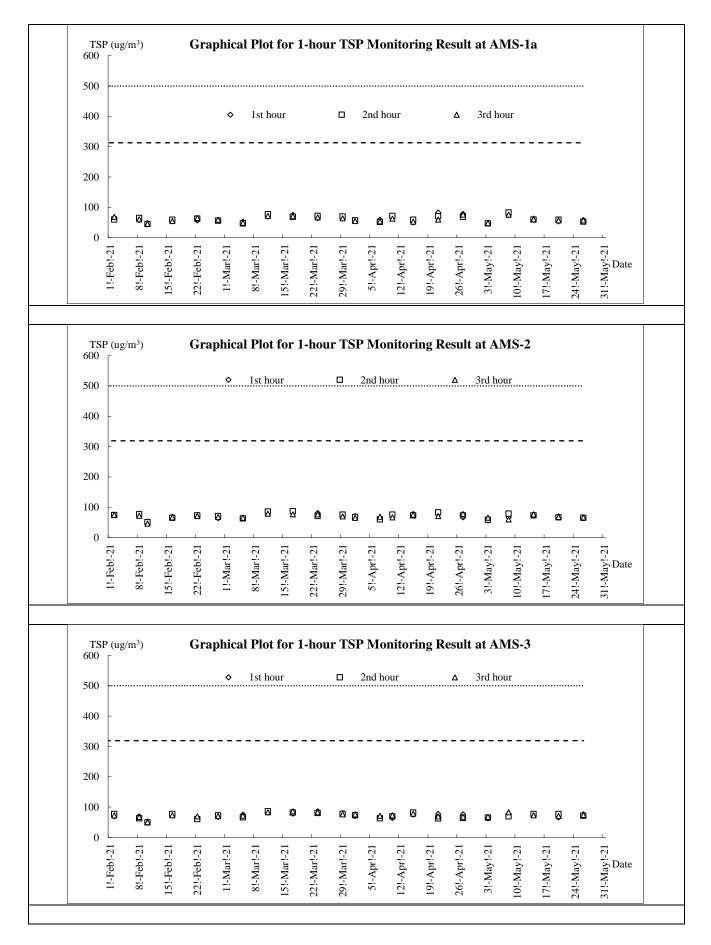
Noise Measu	uremen	t Resu	lts (dB)	of CN1	L																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (5)	min)	Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	dB(A)	Level
	TIME	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	uD(A)	dB(A)
7-May-21	11:04	61	63.7	57.5	63.2	65.5	57.8	63.6	66.4	57.5	64.1	67.5	57.7	66.6	68.2	58	60.4	62.8	56.9	64	70
13-May-21	9:11	57.3	59.5	54	57.6	58.5	55	58.2	60.5	53.5	57	58	53.5	56.9	59	55	57.1	60.5	55.5	57	70
22-May-21		58.3	60.5	55	58.6	59.5	56	59.2	61.5	54.5	58	59	54.5	57.9	60	56	58.1	61.5	56.5	58	70
25-May-21	13:01	60.1	62.5	57	64.9	67	58.5	62	64.5	56.5	60.5	63.5	54	61.1	62.5	56.5	59.8	62.5	56.5	62	70
31-May-21	14:16	60.2	62.5	56	63.9	66.5	58.5	62.3	65	57	63.9	66	58.5	63	66	55.5	65	67	60	63	70
Noise Measu	uremen	t Resu	lts (dB)	of CN2	2																
	<b>C</b> 44	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (5)	min)	5th	Leq (5)	min)	6th	Leq (5	min)	T	Limit
Date	Start Time		L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mie			dB(A)	dB(A)	dB(A)	dB(A)		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)		dB(A)	dB(A)	UD(A)	dB(A)
7-May-21	10:27	58	62.9	57.9	61.2	65.4	59.8	60.2	65.7	57.7	63.5	66.4	56.2	61.1	64.9	56.8	60.8	63.3	56.1	61	70
13-May-21	9:58	62.5	64	60.5	63.4	65	60	65.2	67	61	65.4	68.5	62	65.9	69	62.5	66.5	68	64	65	70
22-May-21	10:56	62.5	64	60.5	63.4	65	60	65.2	67	61	65.4	68.5	62	65.9	69	62.5	66.5	68	64	65	70
25-May-21	13:47	64.8	66.4	57.8	66.7	68.8	60.9	65.3	67.5	59.6	64.4	66.1	59.2	62.5	64.2	56.5	63.8	65.3	58.6	65	70
31-May-21	13:32	61.2	63	59	62.3	63.5	60	65.8	67	62	67.2	69	64	64.5	68	62.5	66.3	68	63.5	65	70
Noise Measu	uremen	t Resu	lts (dB)	of CN3	3																
	<b>G</b> ( )	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (5)	min)	5th	Leq (5)	min)	6th	Leq (5	min)	T 20 ·	Limit
Date	Start	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,		L90,	Leq30min,	Level
	Time			dB(A)	dB(Ã)	dB(A)	dB(A)		dB(A)	dB(A)		dB(A)	dB(A)	dB(Å)	dB(A)	dB(A)	dB(Â)		dB(A)	dB(A)	dB(A)
7-May-21	9:37	59.1	62.9	56.9	63.9	66.2	57.9	62.1	64.5	57.7	63.4	65.1	57.1	60.3	63.1	58.2	58.6	62.6	57.3	62	75
13-May-21	10:47	64.3	66.6	59.6	62.1	64.5	58.9	61.7	63.6	57	60.5	62.6	58.8	62.1	63.2	56	61	63	57.7	62	75
22-May-21	10:14	67.6	70	62.5	67	69	62.5	68.2	71.5	60.5	68.3	71.5	61	70.8	74.5	65	61.8	63.5	59	68	75
25-May-21	14:31	65.2	71.6	59.6	65.7	70.9	60.9	63.2	67.8	59.8	62.2	67.9	58.7	62.5	66.5	57.6	64.1	68.5	58.4	64	75
31-May-21	10:01	61.8	67.5	56	60	64	57	61.6	65.5	56	62.2	66.5	57.5	64.8	66.5	58.5	58.8	64.5	57	62	75

# Appendix I

# **Graphical Plots for Monitoring Result**



## Air Quality – 1-hour TSP

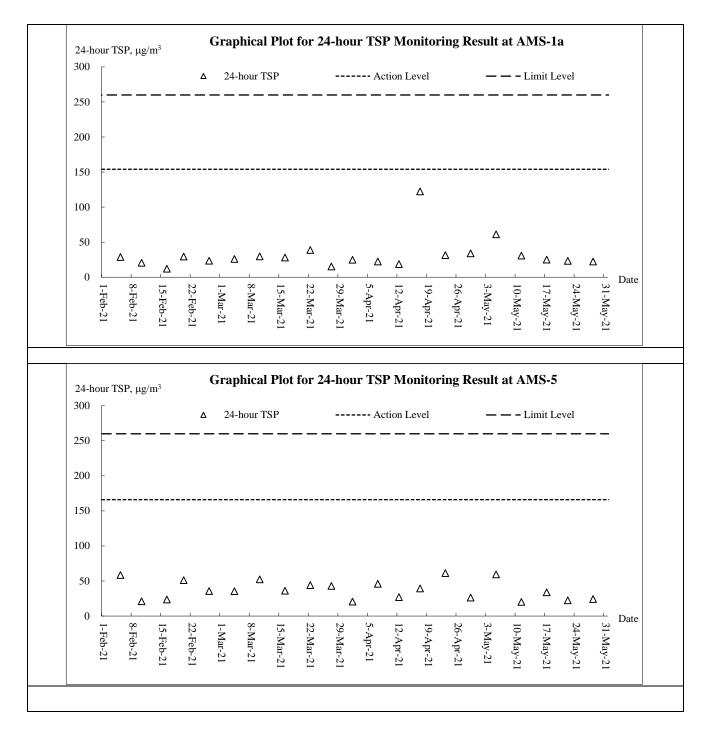




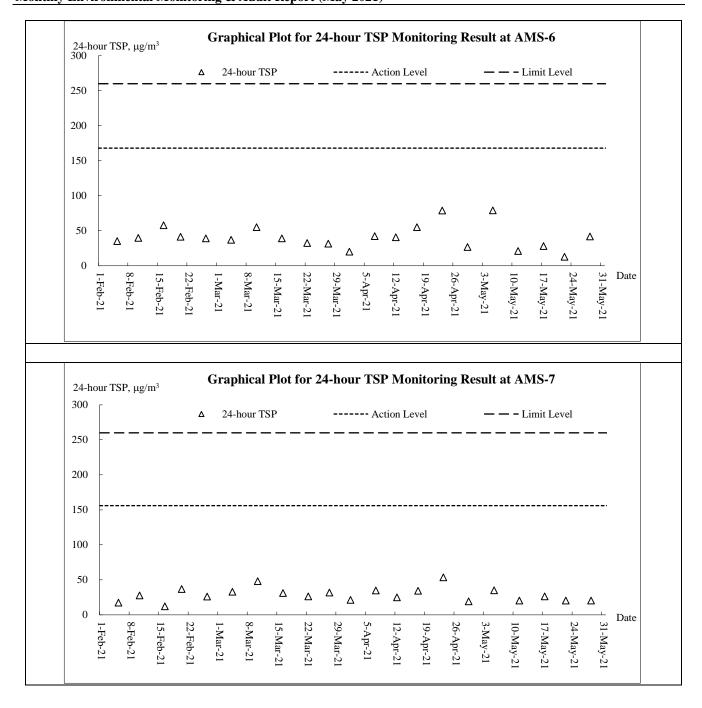
**Graphical Plot for 1-hour TSP Monitoring Result at AMS-5** TSP (ug/m<sup>3</sup>) 600 1st hour 2nd hour 3rd hour Δ 500 400 300 200 100 ₿ ØØ 卤 ⊠ Ŵ ⊠ ₽ Ø Ø Ø ø 🛛 ₿ 卤 ≙ 内 0 10!-May!-21 31!-May!-21 pate 8!-Feb!-21 15!-Feb!-21 1!-Mar!-21 22!-Mar!-21 5!-Apr!-21 12!-Apr!-21 19!-Apr!-21 26!-Apr!-21 3!-May!-21 24!-May!-21 |!-Feb!-21 22!-Feb!-21 8!-Mar!-21 15!-Mar!-21 29!-Mar!-21 17!-May!-21 Graphical Plot for 1-hour TSP Monitoring Result at AMS-6 TSP (ug/m<sup>3</sup>) 600 1st hour 2nd hour 3rd hour ٥ Δ 500 400 300 200 100 ≙ ⊠ ⊠ Ø ∅ Δġ Ø Ø  $\mathbb{R}$ ∅ Ô ⊠ 묘 ≙⊘ ≙ ₽ Ø 囟 卤 0 31!-May!-21 pate 15!-Feb!-21 10!-May!-21 8!-Feb!-21 22!-Feb!-21 1!-Mar!-21 22!-Mar!-21 29!-Mar!-21 5!-Apr!-21 26!-Apr!-21 3!-May!-21 [7!-May!-2] 24!-May!-21 1!-Feb!-21 8!-Mar!-21 15!-Mar!-21 12!-Apr!-21 19!-Apr!-21 Graphical Plot for 1-hour TSP Monitoring Result at AMS-7 TSP (ug/m<sup>3</sup>) 600 1st hour 2nd hour 3rd hour Δ 500 ..... 400 300 200 100 ₿ ∅ 卤 ≙ ⊠ ₫  $\square$ Δ Ŵ ≙ ₫⋈ ⊠ Ø ∅ ៲ 卤卤 卤 ۵ Ø Ô 0 31!-May!-21 Date 8!-Feb!-21 [5!-Feb!-2] 1!-Mar!-21 19!-Apr!-21 l!-Feb!-21 22!-Feb!-21 8!-Mar!-21 15!-Mar!-21 22!-Mar!-21 29!-Mar!-21 5!-Apr!-21 12!-Apr!-21 26!-Apr!-21 3!-May!-21 10!-May!-21 17!-May!-21 24!-May!-21



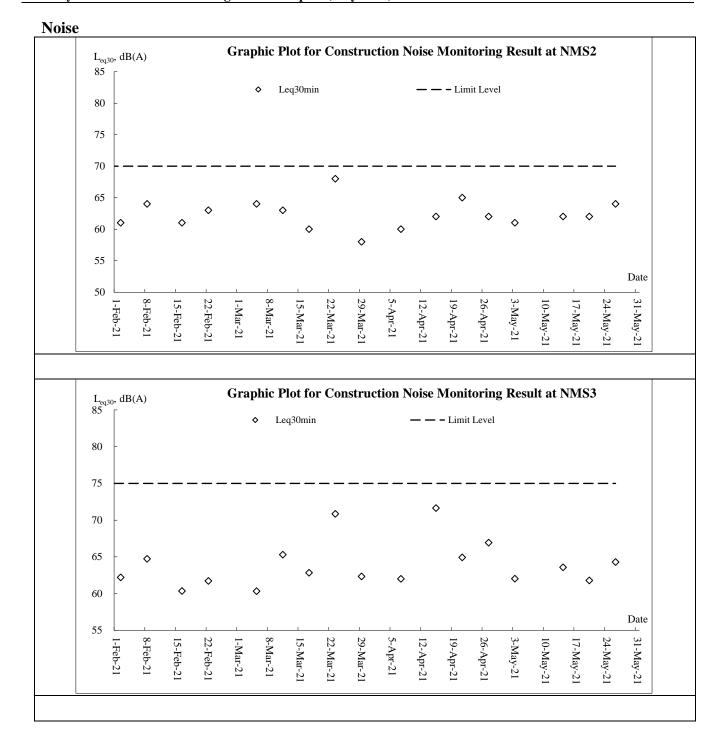
## Air Quality – 24-hour TSP



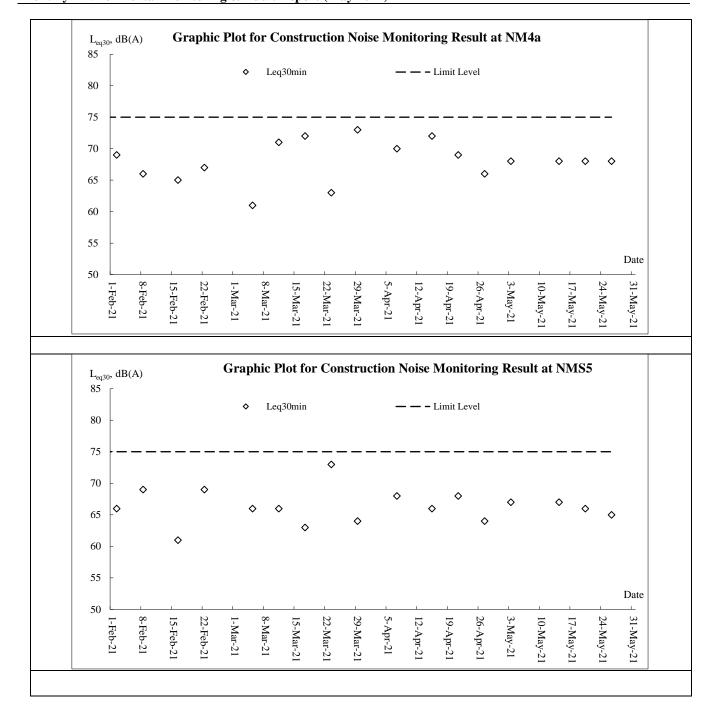


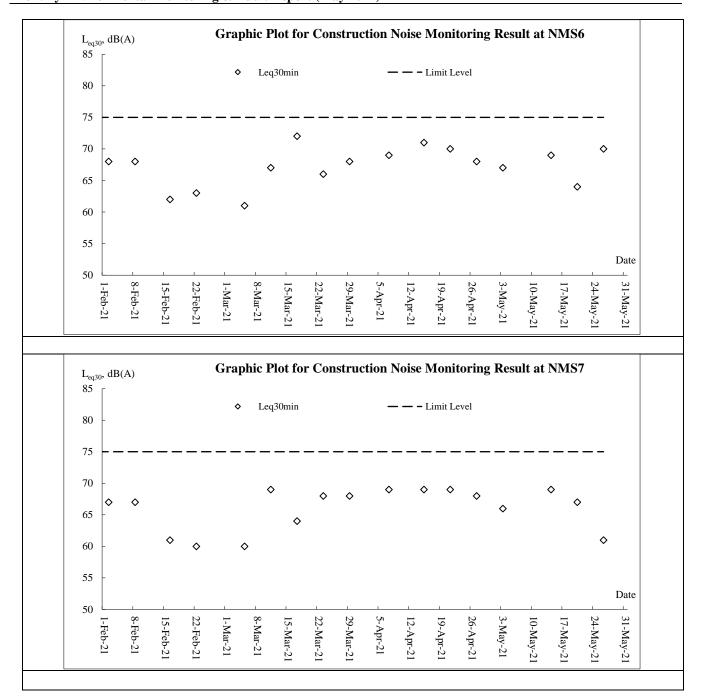




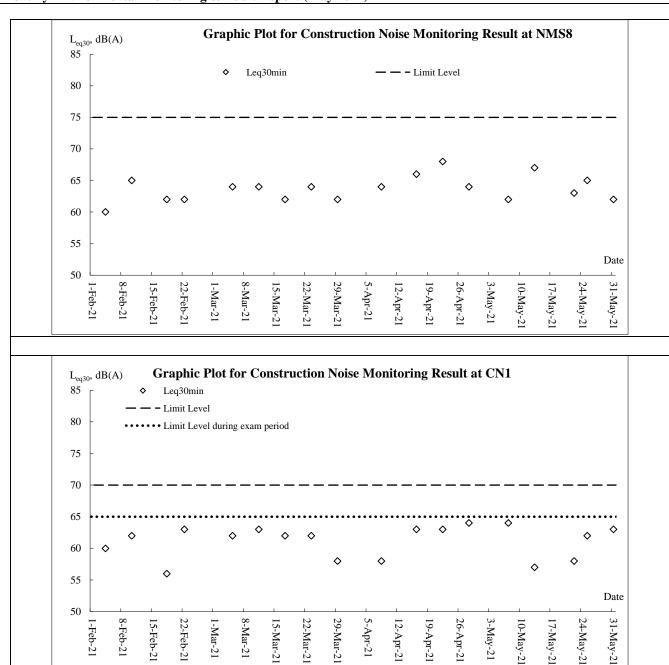












AUES



Graphic Plot for Construction Noise Monitoring Result at CN2  $L_{eq30}, dB(A)$ 85 Leq30min ٥ - Limit Level 80 Limit Level During Examination 75 Period 70 ٥ 65 0  $\diamond$  $\diamond$ ٥  $\diamond$ 0  $\diamond$ ٥  $\diamond$ 60  $\diamond$ ٥ ٥ 55 Date 50 5-Apr-21 8-Feb-21 26-Apr-21 3-May-21 31-May-21 15-Feb-21 12-Apr-21 17-May-21 1-Feb-21 22-Feb-21 1-Mar-21 8-Mar-21 22-Mar-21 29-Mar-21 24-May-2 15-Mar-21 19-Apr-21 10-May-2  $L_{eq30}, dB(A)$ Graphic Plot for Construction Noise Monitoring Result at CN3 85 Leq30min — — – Limit Level ٥ 80 75 70 ٥  $\diamond$ 65  $\diamond$ 0 0 0 0 0 0  $\diamond$  $\diamond$  $\diamond$ 60  $\diamond$  $\diamond$ 55 Date

26-Apr-21

5-Apr-21

29-Mar-2

12-Apr-21

19-Apr-21

3-May-21

10-May-21

17-May-21

24-May-21

31-May-21

8-Mar-21

15-Mar-2]

22-Mar-2]

50

1-Feb-21

8-Feb-21

15-Feb-21

22-Feb-21

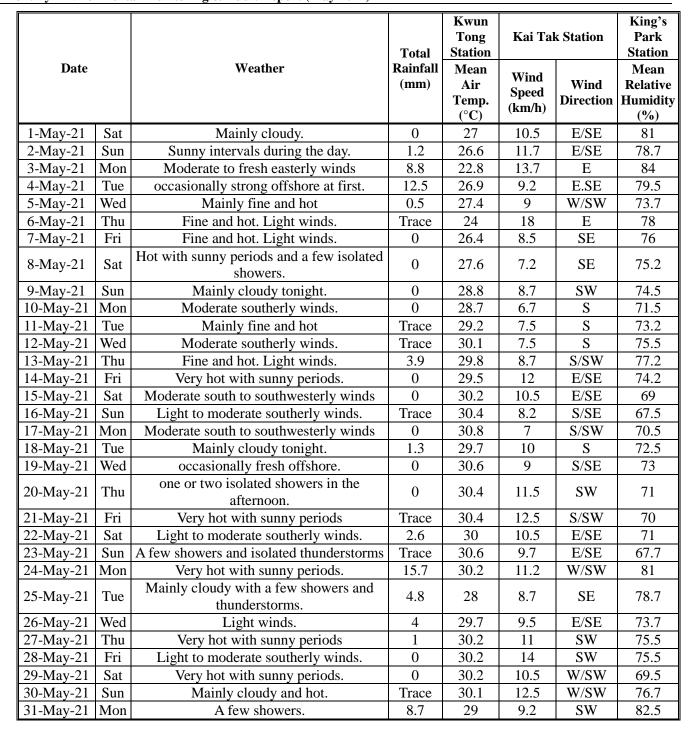
1-Mar-21



Appendix J

**Meteorological Data** 

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 (May 2021)



AUES

Appendix K

Waste Flow Table

### Contract No.: NE/2016/01

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

					-							
		Actual Quan	tities of Inert C&I	O Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes O	Generated Monthly		
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 8)	Disposed as Public Fill	Imported Fill	Metals (see Note 9)	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse	
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
Jan	42.293	0.000	9.773	31.040	1.480	0.180	0.000	0.000	0.000	0.000	0.110	
Feb	15.750	0.000	2.893	11.601	1.256	0.000	0.000	0.047	0.006	0.000	0.121	
Mar	34.287	0.000	12.750	21.267	0.270	0.000	0.012	1.064	0.006	0.000	0.131	
Apr	15.432	0.000	2.688	11.312	1.432	0.650	0.000	0.000	0.000	0.000	0.044	
May	16.995	0.000	6.428	9.857	0.711	1.452	0.005	0.015	0.004	0.000	0.116	
Jun												
Sub-total	124.757	0.000	34.532	85.077	5.149	2.282	0.017	1.126	0.016	0.000	0.522	
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total	124.757	0.000	34.532	85.077	5.149	2.282	0.017	1.126	0.016	0.000	0.522	

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

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  $(1 \text{ t/m}^3)$  and inert C&D materials  $(2 \text{ t/m}^3)$ .

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

(6) Assume a dump truck delivers  $7.5 \text{ m}^3$  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 V

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

Contract No. : \_\_\_\_NE/2016/05

# Monthly Summary Waste Flow Table for 2021 (year)

				IPS C	ause 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
Total Quantity				Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m <sup>3</sup> )
0.12	0	0	0	0.04	0	0	0	0	0	0.08
0.06	0	0	0 .	0.01	0	0	0	0	0	0.05
0.17	0	0	0	0.02	0	0	0	0	0	0.15
0.34	0	0	0	0.05	0	0	0	0	0	0.29
0.22	-	-	-	0.13	0	0	0	0	0	0.09
	_	-	-	-	-	-	-	-	-	-
0.91	0	0	0	0.25	0	0	0	0	0	0.66
-	-	_	-	-	-	-	-	-		-
-	-	_	-	-	-	_	-	-	-	-
-	-		-	_	-	-			-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	-	-
-	-	-	-	-		-	-	-	-	-
	-	-	-		-	-	-		-	
	Total Quantity Generated (in '000 m <sup>3</sup> ) 0.12 0.06 0.17 0.34 0.22 - 0.91 - - - - - - - - - - - - -	Total Quantity Generated         Hard Rock & Large Broken Concrete           (in '000 m <sup>3</sup> )         (in '000 m <sup>3</sup> )           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.12         0           0.17         0           0.22         -           -         -           0.91         0           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -	Total Quantity Generated         Hard Rock & Large Broken Concrete         Reused in the Contract           (in '000 m³)         (in '000 m³)         (in '000 m³)           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.12         0         0           0.17         0         0           0.34         0         0           0.22         -         -           -         -         -           0.91         0         0           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -           -         -         -	Total Quantity Generated         Hard Rock & Large Broken Concrete         Reused in the Contract         Reused in other Projects           (in '000 m <sup>3</sup> )           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.12         0         0         0           0.17         0         0         0           0.34         0         0         0           0.22         -         -         -           -         -         -         -           0.91         0         0         0           -         -         -         -           -         -         -         -           -         -	Actual Quantities of Inert C&D Materials Generated Mont           Total Quantity Generated         Hard Rock & Large Broken Contract         Reused in the Contract         Reused in other Projects         Disposed as Public Fill           (in '000 m³)           0.12         0         0         0         0.04           0.06         0         0         0.01           0.12         0         0         0.02           0.12         0         0         0.04           0.06         0         0         0.01           0.17         0         0         0         0.02           0.34         0         0         0         0.05           0.22         -         -         -         -           0.22         -         -         -         -           0.91         0         0         0         0.02           0.91         0         0         0         0.25           -         -         -         -         -           0.91         0         0         0         0.25           -         -	Quantity Generated         Large Broken Concrete         Refused in the Contract         Refused in other Projects         Disposed as Public Fill         Imported Fill           (in '000 m³)           0.12         0         0         0         0.04         0           0.12         0         0         0         0.04         0           0.12         0         0         0         0.04         0           0.12         0         0         0         0.04         0           0.12         0         0         0         0.01         0           0.12         0         0         0         0.01         0           0.17         0         0         0         0.02         0           0.17         0         0         0         0.05         0           0.22         -         -         -         -         -         -           0.91         0         0         0         0.25         0           -         -         -         -         -         -         -           0.91	Actual Quantities of Inert C&D Materials Generated Monthing         Actual Quantities of Inert C&D Materials Generated Monthing         Imported Fill         Metals           Quantity         Hard Rock & Large Broken Concrete         Reused in the Contract         Reused in other Projects         Disposed as Public Fill         Imported Fill         Metals           (in '000 m <sup>3</sup> )         (in '000 m <sup>3</sup> )	Actual Quantities of Inert C&D Materials Generated MonthlActual Quantities of Inert C&D Materials Generated MonthlTotal Quantity GeneratedHard Rock & Large Broken ConcreteReused in the ContractReused in other ProjectsDisposed as Public FillImported FillMetalsPaper/ cardboard packaging(in '000 m3)(in '000 m3)0.120000.040000.120000.010000.120000.010000.120000.010000.120000.010000.120000.010000.120000.010000.130000.020000.220.910000.250000.910000.250000.910000.250000.910000.250000.910000.9100000 </td <td>Actual Quantities of Inert C&amp;D Materials Generated MonthActual Quantities of C&amp;D WastesTotal Quantity GeneratedHard Rock &amp; Large Broken ContractReused in other ProjectsDisposed as Public FillImported FillMetalsPaper/ machagingPlastics (see Note 3)(in '000 m³)(in '000 m³)(i</td> <td>Actual Quantities of Inert C&amp;D Materials Generated Month         Actual Quantities of C&amp;D Wastes Generated Month           Total Quantity Generated Contract         Reused in Contract         Reused in other Projects         Disposed as Public Fill         Imported Fill         Metals         Paper/ cardboard packaging         Plastics (see Note 3)         Chemicals Waste           (in '000 m<sup>3</sup>)         (in '000 m<sup>3</sup>)</td>	Actual Quantities of Inert C&D Materials Generated MonthActual Quantities of C&D WastesTotal Quantity GeneratedHard Rock & Large Broken ContractReused in other ProjectsDisposed as Public FillImported FillMetalsPaper/ machagingPlastics (see Note 3)(in '000 m³)(in '000 m³)(i	Actual Quantities of Inert C&D Materials Generated Month         Actual Quantities of C&D Wastes Generated Month           Total Quantity Generated Contract         Reused in Contract         Reused in other Projects         Disposed as Public Fill         Imported Fill         Metals         Paper/ cardboard packaging         Plastics (see Note 3)         Chemicals Waste           (in '000 m <sup>3</sup> )         (in '000 m <sup>3</sup> )

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

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

Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material. (3)

The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works. Together with a breakdown of the nature (4) where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>.

### Contract No.: NE/2017/03

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

		Actual Quan	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 (see Note 6)	Reused in other Projects (see Note 6)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	1.858	0.000	0.000	0.349	1.509	0.000	0.000	0.057	0.006	0.000	0.159
Feb	2.713	0.000	0.023	0.253	2.438	0.000	0.000	0.000	3.472	0.000	0.057
Mar	3.793	0.000	0.143	0.746	2.905	0.000	0.000	0.000	0.210	0.000	0.102
Apr	0.869	0.000	0.000	0.000	0.869	0.000	0.000	0.000	0.238	0.000	0.032
May	1.173	0.000	0.000	0.126	1.047	0.000	0.000	0.055	0.776	0.000	0.027
Jun											
Sub-total	10.408	0.000	0.165	1.474	8.769	0.000	0.000	0.112	4.702	0.000	0.377
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	10.408	0.000	0.165	1.474	8.769	0.000	0.000	0.112	4.702	0.000	0.377

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

Notes:

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

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

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

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

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

(6) Assume a dump truck delivers  $7.5 \text{ m}^3$  material in 1 trip.

Wing Lee – Univic Joint Venture	Rev. No.	1
ED/2019/02 – Site Management Plan for Trip Ticket System	Issue Date	31-May-2021
Appendix C - Monthly Summary Waste Flow Table	issue Date	51-wiay-2021

## Name of Department : CEDD

## Contract No. : ED/2019/02

## Monthly Summary Waste Flow Table for 2021 (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 <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m <sup>3</sup> )
Jan								i.e.			
Feb		\$									
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0.03
June									*		
Sub-total	0	0	0	0	0	0	0	0	0	0	0.03
July								400 Mai Ant			
Aug	~			un un Ba							
Sept											
Oct										C	
Nov											
Dec											
Total											ي: ••••

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<sup>3</sup>.

Appendix C - Monthly Summary Waste Flow Table

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# 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		Implemen	tation Status	
KCI.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
	ct (Contraction Phase)							
\$4.7.2 to \$4.7.5	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.75 L/m <sup>2</sup> to achieve the respective dust removal efficiencies.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V
\$4.7.6	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction ion Dust ) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V
S4.7.6	<ul> <li>Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction phase:</li> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wet ted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>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;</li> <li>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;</li> <li>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 period.</li> <li>The port ion of any road leading only to construction ion site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> <li>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;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust</li></ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	œ	œ	œ	e



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Implementation Status           Contract         Contract         Contract				
	<ul> <li>after the activities so as to maintain the entire surface wet ;</li> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> <li>Cement or dry PFA delivered in bulk should be stored in a closed silo fit ted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and</li> <li>Exposed earth should be properly treated by compact ion, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> </ul>				1	2	3		
84.7.7	Implement regular dust monitoring under EM&A programme during the Construction phase.	Control construction airborne noise	Selected Representati ve dust monitoring station	All construction sites where practicable	V	N/A	N/A	N/A	
Noise Impa	act (Contraction Phase)								
\$5.6.9 \$5.6.11 to	<ul> <li>Implement the following good site management practices:</li> <li>only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme;</li> <li>machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>silencers or mufflers on construction ion works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable; and</li> <li>material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction ion airborne noise Reduce the noise	Contractor	All construction sites where practicable	@ V	V N/A	V	@ 	



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the		Implemen	tation Status	
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
\$5.6.13		levels of plant items		construction sites where practicable				
S5.6.14	Install temporary site hoarding (approx 2.5m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction ion noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	V	V	V	v
S5.6.15 to S5.6.18	Install movable noise barriers, full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction ion sites where practicable	V	V	N/A	N/A
\$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	N/A
S5.6.34	Implement temporary noise barrier along Road L4.	Further reduce the construction ion airborne noise	Contractor	Road L4 of ARQ	N/A	N/A	N/A	N/A
\$5.6.35	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected Representati ve Noise monitoring stations	V	N/A	N/A	N/A
Water Qua	ality Impact (Contraction Phase)		1					
\$6.6.3	<ul> <li><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: <ul> <li>At the start of site establishment , perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. </li> <li>Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or </li> </ul></li></ul>	Control construction runoff	Contractor	All construction sites	@	@	@	V



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the measure	Contract	-	tation Status	
		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
	<ul> <li>minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m<sup>3</sup> 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.</li> <li>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.</li> <li>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 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.</li> <li>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 dug and backfilled in short sect ions wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.</li> <li>All open stockpiles of construction ion materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent with agregates, sand and fill material) of should be covered with tarpaulin or</li></ul>							



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	-				
iii.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
	<ul> <li>ions to be taken when a rainstorm is imminent or forecasted, and act ions to be taken during or after rainstorms are summarized in Appendix A2 of <i>ProPECC PN 1/94</i>. Particular attention should be paid to the control of silty surface runoff during storm events.</li> <li>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.</li> <li>Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be collected, handled and disposed of properly to avoid water quality impacts.</li> <li>All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bun ds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.</li> <li>Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Not ices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the rivers.</li> </ul>								
S6.6.6 and 6.6.7	<ul> <li>Sewage from Workforce</li> <li>Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be subject to later detailed design, the capacity of the chemical toilets, and contractor's site practices. Nevertheless, a licensed contractor should be employed to provide appropriate and adequate portable toilets to cater around 37.5 m3/day sewage and be responsible for appropriate disposal and maintenance. Since portable chemical toilets will be provided, no adverse water quality impact from the workforce sewage is</li> </ul>	Handling of site sewage	Contractor	All construction sites	V	V	V	V	



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the		Implemen	tation Status	
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5
	anticipated.							
	• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction ion phase of the Project . Regular environmental audit on the construction ion site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measure							
S6.6.8 and 6.6.9	Accidental Spillage To prevent accidental spillage of chemicals, proper storage and handling facilities should be provided. All the tanks, containers and storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and storm drains. The Contractor is required to register as a chemical waste producer if chemical wastes would be generated from the construction ion activities. Storage of chemical waste arising from the construction ion activities should be well managed with suitable labels an d warnings while disposal of those chemical wastes should be comply with the requirement states in Waste Disposal Ordinance (Cap 354) as well as Waste Disposal (Chemical Waste) (General) Regulations.	Prevention of accidental spillage	Contractor	All construction sites	e	V	V	V
S6.6.11- S6.6.14	Groundwater from Contaminated Area The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater discharge. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliancy to the TM-DSS and the existence of prohibited substance should be confirmed after further SI. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with TMDSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. Petroleum Carbon Ranges (PCRs)). All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be	Minimize contaminated groundwater impacts	Contractor	All construction sites	NA	NA	NA	N/A
	discharged into the foul sewers. If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground.							



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	implement	Location of the	Implementation Status				
Kei.		Concern to Addre		measure	Contract 1	Contract 2	Contract 3	Contract 5	
	The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Sect ion 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the select ion of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as PCRs should be removed as necessary by installing the petrol interceptor.								
	agement (Contraction Phase)				•	1	1	1	
\$8.5.2	<ul> <li><u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: <ul> <li>nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; <li>training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;</li> <li>provision of sufficient waste disposal points and regular collect ion for disposal;</li> <li>appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </li></ul></li></ul>	Minimize was generation duri construction		All construction sites	V	V	V	V	
\$8.5.2 (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 wa generation duri construction		All construction sites	V	V	V	V	
S8.5.3	<ul> <li><u>Waste Reduction Measures</u></li> <li>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:</li> <li>segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling o materials and their proper disposal;</li> <li>proper storage and site practices to minimize the potential for damage and contamination of construction ion materials;</li> </ul>	Reduce was generation	te Contractor	All construction sites where practicable	V	V	V	V	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status				
Kei.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5	
	<ul> <li>plan and stock construction ion materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;</li> <li>sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable port ions (i.e. soil, broken concrete, metal etc.);</li> <li>provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>								
\$8.5.5	<ul> <li><u>Storage of Waste</u></li> <li>The following recommendation should be implemented to minimize the impacts:</li> <li>waste such as soil should be handled and stored well to ensure secure containment;</li> <li>stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away;</li> <li>different locations should be designated to stockpile each material to enhance reuse;</li> </ul>	Minimize waste impacts from storage	Contractor Contractor	All construction sites	V	V	V	V	
\$8.5.6	<ul> <li><u>Collection and Transportation of Waste</u></li> <li>The following recommendation should be implemented to minimize the impacts:</li> <li>remove waste in timely manner;</li> <li>employ the trucks with cover or enclosed containers for waste</li> <li>transportation;</li> <li>obtain relevant waste disposal permits from the appropriate authorities; and</li> <li>disposal of waste should be done at licensed waste disposal facilities.</li> </ul>	Minimize waste impacts from storage	Contractor	All construction sites	V	@	V	@	
S8.5.8	<ul> <li>Excavated and C&amp;D Material</li> <li>Wherever practicable, C&amp;D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public filling areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&amp;D materials: <ul> <li>maintain temporary stockpiles and reuse excavated fill material for backfilling;</li> <li>carry out on-site sorting;</li> <li>make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>implement a recording system for the amount of waste generated, recycled and disposed of for checking;</li> </ul> </li> <li>The recommended C&amp;D materials handling should include: <ul> <li>On-site sorting of C&amp;D materials</li> <li>Reuse of C&amp;D materials</li> <li>Use of Standard Formwork and Planning of Construction Materials</li> </ul> </li> </ul>	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	V	
\$8.5.15	purchasing     Provision of wheel wash facilities Contaminated Soil	Remediate	Contractor	All	V	V	N/A	N/A	



EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main	Who to implement the	Location of the	Implementation Status					
Kei.		Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5		
	As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	contaminated soil		construction sites where applicable						
S8.5.17	<ul> <li><u>Chemical Waste</u></li> <li>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.</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	@	V	V	V		
S8.5.18	<ul> <li><u>General Waste</u></li> <li><u>General refuse</u> should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</li> <li>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.</li> <li>A reputable waste collector should be employed to remove general refuse on a daily basis.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	V	V	V	V		
\$8.5.19	<ul> <li><u>Sewage</u></li> <li>The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities.</li> <li>Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts.</li> </ul>	Minimize production of sewage impacts	Contractor	All construction sites	v	v	v	V		
Ecology (C	ontraction 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	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	N/A		



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the	Implementation Status					
Ref.		Measures & Main Concern to Address	the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 5		
			the planting).							
.10.7.10	<ul> <li>Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include:</li> <li>Temporary severage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses;</li> <li>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;</li> <li>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;</li> <li>Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses;</li> <li>Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses;</li> <li>Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses;</li> <li>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;</li> <li>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;</li> <li>Construction ion effluent, site run-off and sewage will be probably collected and/or treated. Wastewater from any construction ion site will be minimised via the following in descending order: reuse, recycling and treatment;</li> <li>Proper locations</li></ul>	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V	N/A		



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

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

Appendix M

**Complaint Log** 

### Appendix M1 Cumulative Complaint and Summons/ prosecution

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/ Prosecution in Reporting Month
March 2017	1	0
April 2017	0	0
May 2017	0	0
June 2017	2	0
July 2017	3	0
August 2017	3	0
September 2017	4	0
October 2017	2	0
November 2017	3	0
December 2017	3	0
January 2018	1	0
February 2018	4	0
March 2018	0	0
April 2018	2	0
May 2018	1	0
June 2018	1	0
July 2018	0	0
August 2018	<u> </u>	0
September 2018	1	0
October 2018	1	0
November 2018	3	0
December 2018	2	0
January 2019	2	0
February 2019	3	0
March 2019	<u>5</u>	0
April 2019	0	0
May 2019	0	0
June 2019	1	0
July 2019	1	0
August 2019	1	0
September 2019	0	0
October 2019	1	0
November 2019	4	0
December 2019	0	0
January 2020	0	0
February 2020	0	0
March 2020	4	0
April 2020	1	0
May 2020	1	0
June 2020	1	0
July 2020	1	0
August 2020	0	0
September 2020	0	0
October 2020	0	0
November 2020	1	0
December 2020	2	0
January 2021	1	0
February 2021	0	0
March 2021	2	0
March 2021		U

April 2021	1	0
May 2021	0	0
Overall Total	67	0



A	opendix N	M2	Comp	olaint Log							
Lo <sub>?</sub> ref	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.
1	23-Mar-17	NA	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	SPRO hotline	NA	A resident living in On Tat House reported that some night works with noise and flashing caused nuisance to nearby resident after 11:00 pm on 23 March 2017.	According the incident report conducted by the CWSTVJV, demobilization of crawler crane was undertaken on 23 March 2017 11pm and it is TD requirement to carry out demobilization of heavy machine at nighttime. It is considered this complaint was a single incident and would not be happened again in future.	no comment by IEC on 11 Oct 2017	TCS00864/16/3 00/F0087
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	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	21-Jun-17	29-Aug-17	Anderson Road Quarry site	Resident of Po Tat Estate	Construction noise	EPD		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	22-Jun-17	29-Aug-17	Anderson Road Quarry site	Resident of Po Tat Estate	Dust & Construction noise	EPD		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	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	28-Jul-17	29-Aug-17	Anderson Road Quarry site	unknown	Dust	EPD	`	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	EPD (ref.N08/ RE/00024 557-17)		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.	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at	no comment by IEC on 18 Oct 2017	
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	EPD (ref.N08/ RE/00029 489-17)	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,		TCS00864/16/3 00/F0106
12	3-Oct-17	13-Oct-17	Anderson Road Quarry site	Resident of On Tat Estate	Construction noise	EPD	EPD (ref. N08/RE/0 0032407- 17)	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	CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 30 Nov 2017	
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	



	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.
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	<ol> <li>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。</li> <li>隔音布未固定,大風吹過發出極 大的聲浪</li> </ol>	To ease the concern by the complaint, CWSTVJV has adjusted the lights to the orientation pointing the ground and that to minimise the nuisance. For the maintenance of noise barrier, CWSTVJV has immediately fixed the noise barrier 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	
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	
17	25-Aug-17	26-Oct-17	Anderson Road Quarry site	Resident of Sau Mau Ping Estate	Construction Noise	EPD		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	
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	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	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 Feb 2018	TCS00864/16/3 00/F0129



	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.
									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	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.	no comment by IEC on 8 Feb 2018	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.	no comment 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 based often 6.00	AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was only carried out from 8:00 to 18:00. However, rock breaking at System A was extended to 19:00 on 1 February 2018. As noise mitigation measures, noise barriers were erected for the works area. Further to the complaint case, CWSTVJV would seek for other quiet work method such as using drilling machine to reduce noise level and speed up the rock breaking process, so that to reduce the noise intensity level and the duration of exposure.	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	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	Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking works shall tentatively be completed by end of April and it is believe that the noise impact should be minimized. Since the works were carried out within the non-restricted hours and noise monitoring noise were within acceptable level, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 19 Mar 2018	TCS00864/16/30 0/F0143



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26	11-Apr-18	12-Apr-18	Anderson Road Quarry site	Resident of HimTat House	Construction Noise	SPRO Hotline	NA	noise irritation was becoming more 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.	by IEC on 7	TCS00864/16/3 00/F0160b
27	25-Apr-18	7-May-18	Junction of Hiu Kwong Street and Hiu Ming Street	school 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	NΛ	投訴人指安達臣道石礦場地盤 (NE/2016/01)在入夜 19:00 後仍見	As advised by CWSTVJV and confirmed by RE/AECOM, there were no construction activities carried out after 19:00 and concreting was completed before 19:00. It is concluded that the retracting process is not a general construction work using Powered Mechanical Equipment and complaint was an isolated case due to misunderstanding of the site operation. To prevent similar incidents in future, CWSTVJV has recommended several mitigation measures.	no comment by IEC on 30 July 2018	TCS00864/16/3 00/F0174b
29	25-Jun-18	19-Jul-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	
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.	by IEC on 7	TCS00864/16/3 00/F0196a



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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	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	E3	Kwun Tong DC member Ms. So Lai-chun		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		Anderson 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.	closely updated to nearby stakeholders to enhance communication. Mr. Hiu satisfied with the reply from SPRO and he agreed that the proposed noise monitoring in Ching Tat House was not needed. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.	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



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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		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		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 arway by ET.	no comment by IEC on 28 Mar 2019	TCS00864/16/3 00/F0250
43	21-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.	In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident and status of implementation of dust mitigation measures was considered effective based on the site observation. Moreover, there was mostly rainy day throughout June and July 2019 in typical rainy season in Hong Kong and the dust impact was considered not significant in addition to the dust mitigation measures implemented provided by the Contractor. Nevertheless, the ET will closely monitor the environmental performance and dust mitigation measures in subsequent site inspection.	no comment by IEC on 12 August 2019	TCS00864/16/3 00/F0292b
47	6-Aug-19		Ming Street opposite of Tsui Yeung House)	翠屏 (北)邨 物業服務辦 事處	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		Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchang e Pedestrian Connectivi ty Facilities E12)		Noise	1823	NA	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	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



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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).	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 27 Dec 2019	TCS00864/16/3 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	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 27 Dec 2019	TCS00864/16/3 00/F0333a
51	10-Nov-19	12-Nov-19	Underpass	Resident of Ma Yau Tong Village	Noise	EPD	NA	On 10 November 2019 投訴人為馬游塘村居民,自本年初 寶林路開展掘隧道工程,每天嗓音 不斷,由8至6,由於欠缺遮擋,聲 音直向4至22號村屋,將來通車,相 信噪音不只8-6,現懇請環保署為本 村居民正式評估,並向政府提出村 民困擾,考慮盡快設置隔音屏。 On 11 November 2019 寶琳路近馬游塘村開掘隧道的工程 地盤每日 8am-6pm 發出噪音,欠缺 遮擋,聲音影響馬游塘村 4-22 號村 屋。希望政府部門 1.調查地盤有否違規 2.實施減音措施以減低對附近居民 的滋擾	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. For the complainant's concern on the operation noise after commencement of the project, it is out of the scope of the EM&A programme and the relevant department will follow up the concern.	no comment by IEC on 30 Dec 2019	TCS00864/16/3 00/F0337a
52	11-Nov-19	20-Nov-19	Facilities	(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

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 (May 2021)



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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	6-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.	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	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.	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	CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection, no outflow of muddy water from the site was observed and the condition of concerned Lin Tak Road was satisfactory. It	no comment by IEC on 15 Apr 2020	TCS00864/16/3 00/F0360a

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Lo; ref.	g Date of	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。 許有為區議員要求陪同視察。 A public complaint was received by hotline on 17 March 2020 regarding the construction noise generated from the Anderson Road Quarry Site. The complainant mentioned that the	In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. 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 integation 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



	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	12-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 's health. The complainant enquired about the completion date of construction work, construction noise level standard and implementation of noise mitigation measures on site.	measures in place. Nevertheless, Kwan On was reminded to continually implement the noise mitigation measures as far as practicable in the remaining work. The performance of noise mitigation measures will keep in view by ET in subsequent site inspection	no comment by IEC on 28 May 2020	TCS00864/16/3 00/F0370a
59	18-Jun-20	23-Jun-20	System B	Undisclosed	Noise	EPD	NA	A public complaint was received by EPD on 18 June 2020 regarding the noise generated from rock breaking by machinery after 6pm from construction site near Hau Tat House. The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm. According to the information provided by the complainant, it is suspected complaint location would be Anderson Road Quarry Site, System B,	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 complaint 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



	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.
61	14-Nov-20	18-Nov-20	Near Hiu Ming Street Playgroun d (E8)	Undisclosed	Noise	1823	NA	A public complaint was received by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up	In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	no comment by IEC on 4 January 2021	TCS00864/16/3 00/F0424
62	4-Dec-20	7-Dec-20	Opposite to On Tai Estate – lower portion of Road L4	Undisclosed	Dust	EPD	NA	A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site opposite to On Tai Estate had dust emission problem due to lack of water spraying. He/she requested relevant department to follow up	In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. In view of the potential traffic dust impact and implementation of dust mitigation measures, it is considered that the complaint was not valid to the Project	no comment by IEC on 4 January 2021	TCS00864/16/3 00/F0434
63	3-Dec-20	7-Dec-20	Ma Yau Tong Village (East Portal)	Undisclosed	Noise and dust	1823 & EPD	3-657414 1017	A public complaint was received by 1823 and EPD on 14 November 2020 regarding the construction dust and noise impact arising from the project. There were acoustic mats erected on the slope of East Portal, however, the complainant enquired about effectiveness of the noise barriers with dozens of 15 cm "X"-shaped cuts. Moreover, there was lack of water sprinkling on the site and fugitive dust was blowing to the village	In our investigation, CWSTVJV had provided the dust and noise mitigation measures to minimize the dust and noise impact to the resident nearby. To response the concern from the complainant, as enhancement noise measure, the Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement	no comment by IEC on 4 January 2021	TCS00864/16/3 00/F0435
64	7-Jan-21	7-Jan-21	System B	Resident of Yan Tat House	Noise	Project hotline	NA	A public complaint was referred by district Councillor Mr. HSU Yau-wai and received by project hotline on 7 January 2021 regarding the construction noise. The complainant mentioned that the construction site next to SKH St. John's Tsang Shiu Tim Primary School generated noise problem and she requested relevant department to follow up.	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public.6. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	NA.	TCS00864/16/3 00/F0441



	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.
65	18-Mar-21		Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	Undisclosed	Noise	1823 & EPD	NA	construction works at Anderson Road Quarry Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 1 April 2021	TCS00864/16/3 00/F0454
66	28-Mar-21	30-Mar-21	Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	Tai Estate	Noise	EPD	K13/RE/0 0007086- 21	A public complaint was received by EPD on 28 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site until 9pm on Monday to Saturday. Moreover, the complaint concerned about the construction noise heard on 28 March 2021 which was a Sunday.		no comment by IEC on 22 April 2021	TCS00864/16/3 00/F0459
67	Not provided	1-Apr-21	Constructi on site near SKH St. John's Tsang Shiu Tim Primary School (System B under Contract 3)	Undisclosed	Noise	EPD	NA	A complaint was received by EPD and referred to CEDD on 1 April 2021 regarding the construction noise. The complainant mentioned that piling work was conducted at construction site near SKH St. John's Tsang Shiu Tim Primary School in recent week which generated noise problem. Moreover, there were no noise mitigation measures provided in the construction site	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Moreover, the Contractor has adopted noise mitigation measures to minimise noise impact to the public. Since the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures of factor are meticable as measured to implement	NA.	TCS00864/16/3 00/F0458



## Appendix N

## **Implementation Status for** Water Quality Mitigation Measures

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## Water Quality Mitigation Measure



Paving for exposed slope to reduce dust dispersion & mitigate the silty runoff generation at Q1.



Impermeable cover for slope at System A.



