

JOB NO.: TCS01271/22

CEDD SERVICE CONTRACT NO. EDO 8/2022 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT **REPORT (DECEMBER 2022)**

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
11 January 2023	TCS00864/16/600/R0610v2	Anh	Am

Nicola Hon

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

Version	Date	Remarks
1	11 January 2023	First submission



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. The above Contract No. NTE/07/2016 was completed in late September 2022 and current EM&A works would be covered by new Contract No. EDO 8/2022 from 22 September 2020 for the Contract Period of 12 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. Moreover, variation order for extend service under Contract ED/2020/02 (Contract 4) was issued by AECOM. The commencement date of Contract 4 was on 27 September 2021.
- ES04 This is the 69th monthly EM&A report presenting the monitoring results and inspection findings for the period from 1 to 31 December 2022 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

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

Environmental	Environmental Monitoring	Reporting Period		
Aspect	Parameters / Inspection	Number of Active Monitoring Locations	Total Occasions	
Air Quality	1-hour TSP	6	108	
Air Quality	24-hour TSP	4	20	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	7	35	
Construction Noise	$L_{eq(30min)}$ Daytime for Contract NE/2017/03	1	5	

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.

E	Manitaring	A ation Time	T ::4	it NOE Issued Investigation Corrective Action			
Environmental Aspect	Parameters	Level	Limit Level	NOE Issued	Investigation	Corrective Actions	



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

Monthly Environmental Montoring & Maat Report (December 20

ENVIRONMENTAL COMPLAINT

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

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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

REPORTING CHANGE

ES09 There is no reporting change in the Reporting Period.

SITE INSPECTION

- ES10 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 1* were carried out by the RE, ET and Contractor on 8, 13, 20 and 29 December 2022 in which IEC joined the site inspection with SSEMC on 8 December 2022. 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 7, 14, 21 and 28 December 2022 in which IEC joined the site inspection on 28 December 2022. 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 9, 16, 19 and 30 December 2022 in which IEC joined the site inspection with SSEMC on 19 December 2022. 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 4* were carried out by the RE, ET and Contractor on 7, 14, 22 and 29 December 2022 in which IEC joined the site inspection with SSEMC on 22 December 2022. No non-compliance was noted during the site inspection.
- ES14 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 1, 8, 15, 23 and 29 December 2022 in which IEC joined the site inspection on 23 December 2022. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- ES15 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.
- ES16 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.



- ES17 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.
- ES18 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	9
	3.1 GENERAL	9
	3.2 MONITORING PARAMETERS	9
	3.3 MONITORING LOCATIONS	9
	3.4 MONITORING FREQUENCY AND PERIOD	11
	3.5 MONITORING EQUIPMENT	12
	3.6 MONITORING METHODOLOGY	12
	3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS	14
	3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL	15
4.	AIR QUALITY MONITORING	16
	4.1 GENERAL	16
	4.2 RESULTS OF AIR QUALITY MONITORING	16
5.	CONSTRUCTION NOISE MONITORING	18
	5.1 GENERAL	18
	5.2 NOISE MONITORING RESULTS IN REPORTING MONTH	18
6.	WASTE MANAGEMENT	20
	6.1 GENERAL WASTE MANAGEMENT	20
	6.2 RECORDS OF WASTE QUANTITIES	20
7.	SITE INSPECTION	22
	7.1 REQUIREMENTS	22
	7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH	22
8.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE	25
0.	8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION	25
9.	IMPLEMENTATION STATUS OF MITIGATION MEASURES	27
	9.1 GENERAL REQUIREMENTS	27
	9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONT	
	9.3 KEY ISSUES FOR THE COMING MONTH	29
10.	CONCLUSIONS AND RECOMMENDATIONS	30
	10.1 CONCLUSIONS	30
	10.2 RECOMMENDATIONS	30



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 4
TABLE 2-5	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 5-2	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 4
TABLE 7-5	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 8-3
 STATISTICAL SUMMARY OF ENVIRONMENTAL PROSECUTION
- TABLE 9-1
 ENVIRONMENTAL MITIGATION MEASURES

LIST OF APPENDICES

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



APPENDIX K	WASTE FLOW TABLE
APPENDIX L	IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES
APPENDIX M	COMPLAINT LOG
APPENDIX N	IMPLEMENTATION STATUS FOR WATER QUALITY MITIGATION MEASURES



1. INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") has been awarded the CEDD Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract was December 2016 and the Contract Period is 70 months. The above Contract No. NTE/07/2016 was completed in late September 2022 and current EM&A works would be covered by new Contract No. EDO 8/2022 from 22 September 2020 for the Contract Period of 12 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 5 was on 30 March 2021. Moreover, variation order for extend service under Contract ED/2020/02 (Contract 4) was issued by AECOM. The commencement date of Contract 4 was on 27 September 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 69th monthly EM&A report presenting the monitoring results and inspection findings for the period from 1 to 31 December 2022 (hereinafter referred as "Reporting Period").

1.2 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

1



Section 4	Air Quality Monitoring
Section 5	Construction Noise Monitoring
Section 6	Waste Management
Section 7	Site Inspections
Section 8	Environmental Complaints and Non-Compliance
Section 9	Implementation Status of Mitigation Measures
Section 10	Conclusions and Recommendations



2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 CONSTRUCTION CONTRACT PACKAGING

2.1.1 To facilitate the project management and implementation, the Project was divided by 5 works contracts as described in following. The details of each contract are summarized below and the delineation of each contract is shown in *Appendix A*.

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

- 2.1.2 Commencement date of Contract 1 was in late December 2016 and tentative completion date in June 2023. The major scope of work of Contract 1 is listed below:
 - Formation of about 40 hectares (ha) of land platforms at the ARQ site and the associated geotechnical works;
 - Road works including construction of approximately 3-kilometer long vehicular roads, footpaths, cycle tracks, an approximately 130-meter long underpass at the southern end an a public transport terminus at the northern end at the ARQ site;
 - Provision of and improvement to water supply, drainage and sewerage systems as well as landscaping works; and
 - Construction of proposed subway structures and lift tower structures of pedestrian connectivity facilities.

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

- 2.1.3 Commencement date of Contract 2 was in March 2017 and tentative completion date in January 2023. The major Scope of Work of the Contract 2 is listed below:
 - (i) Construction of the following pedestrian connectivity facilities with covered elevated walkways, covered at grad walkways, escalators, life towers with associate staircase and lifts:-
 - (a) Linking Hiu Kwong street with Hiu Ming Street (E1)
 - (b) Linking the proposed "Footbridge Link at Sau Ming Road" with Hiu Ming Street (E2, C1 and E3)
 - (c) Linking the proposed bus-to-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Lin Tak Road (E12)
 - (ii) Construction of bus-to-bus interchange (BBI) at Tseung Kwan O Tunnel Toll Plaza;
 - (iii) Associated landscape works;

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

- 2.1.4 The commencement date of Contract 3 was in May 2018 and the tentative completion date in September 2023. The major Scope of Work of the Contract 3 is listed below:
 - (i) Site formation and road works in the following sections:-
 - (a) at junction of Clear Water Bay Road (CWBR) and On Sau Road constructed under the Development at Anderson Road (DAR) project including the provision of U-turn facility and noise mitigation measures (RIW1);
 - (b) at New Clear Water Bay Road (NCWBR) near Shun Lee Tsuen Road including the road widening works at NCWBR, modification of existing subway structure and provision of noise mitigation measures (RIW2); and
 - (c) at the junction of Lin Tak Road and Sau Mau Ping Road, construction of flyover above Tseung Kwan O Road, provision of loading and unloading bays along Lin Tak Road and noise mitigation measures (RIW3).
 - (ii) construction of the following pedestrian connectivity facilities with covered elevated walkways, escalators and lift towers with associated staircases and lifts:-
 - (a) linking Anderson Road Quarry site with the DAR Site (except the works covered under Contract 1) (System A and System B);
 - (b) linking Hiu Ming Street with Hiu Yuk Path (E8); and



- (c) linking the proposed bus-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Sau Mau Ping Road (E11).
- (iii) Associated landscape works.

Contract 4 (Contract No. ED/2020/02)

- 2.1.5 The commencement date of Contract 4 is in July 2021 and tentative completion date in December 2023. The major Scope of Work of the Contract 4 is listed below:
 - Hard landscaping and other ancillary works (e.g. paver footpath, planter walls, benches, lighting etc.)
 - Soft landscaping works; landscape deck, emergency vehicular access, access road:
 - Park lighting system;
 - Electrical and mechanical engineering works for underground water treatment facilities and pumping system for Artificial Flood Attenuation Lake; and
 - Potential slope enhancement requested by GEO.

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

- 2.1.6 The commencement date of Contract 5 in March 2021 and tentative completion data in April 2024. The major Scope of Work of the Contract 5 is listed below:
 - Construction pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping Road with the existing covered elevated walkway to Po Tat Estate (E5);
 - Construction a pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping South Estate with the existing covered walkway to Sau Mau Ping Road (E6);
 - Construction a pedestrian connectivity facility with covered elevated walkway, elevated walkway, lift tower with associated staircase and lifts linking Hiu Kwong Street with podium of Sau Ming House, Sau Mau Ping Estate, provision of at grade staircase (E7)'
 - Construction a pedestrian connectivity facility with covered elevated walkway, lift tower with associated staircase and lifts linking podium of Po Tat Estate to Sau Mau Ping Road (E10); and
 - Ancillary works including electrical and mechanical, slope stabilization, drainage, utilities and landscaping works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization and contact details for Contracts 1, 2, 3, 4 and 5 are shown in *Appendix B*.

2.3 CONSTRUCTION PROGRESS

2.3.2 The 3-month rolling construction programme for Contracts 1, 2, 3, 4 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)

Underpass Tunnel

• Construction of Berm at Slope A3

East Portal Area

- Rock filling works for slope feature
- Overall progress for soil nailing works at slope A1
- Rock cut slope A1
- Excavation work for sewage manhole



- Subbase laying work
- Construction at east portal

PC System A

- Concrete pavement laying work
- External and internal ABWF works
- Metal works
- Lift installation and installation of outdoor louvre
- Waterproofing work

Ventilation Building

• External and internal ABWF works

Retaining Wall RWA12

Railing installation

Contract 2 (NE/2016/05)

- Temporary Traffic Arrangement (TTA)
- Mass Concrete construction
- Formwork and Falsework installation and dismantling
- Lift Installation and lift Tower Construction
- Rebar fixing

Contract 3 (NE/2017/03)

Pedestrian Connectivity Facility E8 (PC-E8)

• Touch-up outstanding works and additional works are in progress.

Pedestrian Connectivity Facility E11 (PC-E11)

- The footbridge of PC-E11 was commenced to public on 31 December 2022.
- Remaining works at site Portion E and Portion FII is in-progress.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- ABWF works and E&M works at LT1, LT2 & ST1 are in-progress.
- T&C to lifts at LT1 are in-progress.
- RC works at footbridge are in-progress.
- .

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- Erect footbridge steel frame is in-progress.
- RC works at Pier 1 is in-progress.
- Preparation works for watermain diversion near PC1 is in-progress.

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 2a, 6, 8, 9 & 12
- Drainage works at Portion 2a, 6, 8, 9 & 12
- Construction of Retaining Wall (Portion 6,8,12)
- Construction of Planter at Portion 8,12
- Slope works at Portion 10, Portion 17
- Preparation works for Construction of bridge at Portion 13b
- Modification works at RWA10 at Portion 13b
- Road works at G2-Site at Portion 13b

Contract 5 (ED/2019/02)

Portion 1

Construction of Pile Cap at E5-PC1



- Form lower Piling Platform
- Replace existing slope soil by Grade 200 Rockfill at E5PC3

Portion 2

.

- Construction of Pile Cap at E6-PC1
- Backfill the Pile Cap at E6-PC3
- Construction of Pile Cap at E6-PC2

Portion 3

- Install mini-piles at 72mPD & temp. soldier piles for 69mPD platform
- Installation of ELD and excavation at E7-F2

Portion 4

- Rock mapping
- 3.3.3 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 1, 2, 3, 4 and 5 are presented in *Tables 2-1, 2-2, 2-3, 2-4 and 2-5*.

		License/Permit Status				
Item	Description	Permit no./ account	Valid	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	WT00041620-2022	30 May 22	31 May 27	Valid	
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no. 7026925	20 Jan 17	End of project	Valid	
5	Construction Noise Permit	GW-RE0796-22	17 Aug 22	31 Dec 22	Valid	

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

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

		License/Permit Status				
Item	Description	Permit no./ account	Valid	Status		
Item		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	7 Jul 17	End of Project	Valid	



		License/Permit Status				
Item	Description	Description Permit no./ account		Valid Period		
Item		no./ Ref. no.	From	То	Status	
3	Water Pollution Control Ordinance – Discharge License	Case no. 485699	In Progress			
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no.7027548	12 Apr 17	End of project	Valid	
5	Construction Noise Permit	GW-RE1147-22	29 Oct 22	25 Dec 22	Valid	

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

		License/Permit Status			
Item	Description	Permit no./ account	Valid	Period	Status
		no./ Ref. no.	From	То	
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	EPD ref. no. 434186	31-May-18	NA	Valid
2	Chemical Waste Producer Registration	For Area R1W3 (E11) Registration no. WPN : 5213-294-C4239-04	6-Aug-18	End of Project	Valid
		For Area System A Registration no. WPN: 5213-293-C4239-05	6-Aug-18	End of Project	Valid
		For Area System B Registration no. WPN 5213-294-C4239-03	6-Aug-18	End of Project	Valid
		For Area E8 Registration no. WPN 5213-292-C4239-06	6-Aug-18	End of Project	Valid
3	WaterPollutionControlOrdinance	For Area R1W3 (E11) WT00032742-2018	18-Jan-19	31-Jan-24	Valid
	– Discharge License	For Area System A WT00033223-2019	31-Jan-19	31-Jan-24	Valid
		For Area System B WT00033229-2019	24-Jun-19	30-Jun-24	Valid
		For Area E8 WT00033224-2019	21-Mar-19	31-Mar-24	Valid
4	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	Account no.7031075	20-Jun-18	End of project	Valid



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

		License/Permit Status			
Item	Description	Permit no./ account	Valid 3	Period	Status
		no./ Ref. no.	From	То	
1	Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation	EPD ref. no. 470496	19 August 2021	NA	Valid
2	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	Account no. 7041336	6 September 2021	NA	Valid
3	Chemical Waste Producer Registration	Registration no. WPN 5213-296-C1206-12	14 September 21	End of project	Valid
4	WaterPollutionControlOrdinance-DischargeLicense	Case no. 485340	In Progress		

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

		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	EPD ref. no. 466255	NA	NA	Valid
2	Chemical Waste Producer Registration	Registration no. WPN 5298-293-W3611-01	12 May 21	End of project	Valid
3	Water Pollution Control Ordinance	WT00039694-2021	16 Nov 21	30 Nov 26	Valid
	– Discharge License	WT00040919-2022	5 May 22	31 May 27	Valid
		WT00041457-2022	30 June 22	30 June 27	Valid
		WT00040670-2022	28 Mar 22	31 Mar 27	Valid
4	WasteDisposalRegulation-BillingAccount forDisposalofConstructionWaste	Account no. 7040359	3 May 21	NA	Valid



3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

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

3.2 MONITORING PARAMETERS

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

Table 3-1Summary of EM&A Requirements

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

3.3 MONITORING LOCATIONS

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

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

	impact from toring stations fin Quanty				
ID	ASR ID in EIA	Location in the EM&A Manual	Identified Location during Site Visit	Status	
AMS-1	ACYC-01	Chi Yum Ching She	Ground of Chi Yum Ching facing the project site	Replaced by AMS-1a	
AMS-1a (*)	ACYC-01	TanShanVillage No. 5 - 6	Ground of Tan Shan Village No. 5 - 6 facing the project site	Active	
AMS-2 (#)	DARB-13	Block 8, Site B	Ground of Fung Tai House of On Tai Estate	Active	
AMS-3 (:)	DARC-16	Planned Clinic and Community Centre, Site C2	Ground of Planned Clinic and Community Centre facing Anderson Road (Ancillary Facilities Building)	Active	
AMS-4	DARC-26	Planned School, Site C2 Note 1	Ground of Planned School facing Anderson Road	Not yet commenced	
AMS-5	DARE-06	Block 5, DAR Site E	Main roof of Oi Tat House of On Tat Estate facing the	Active	

CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works



Monthly Environmental Monitoring & Audit Report (December 2022)

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

Note 1: The ASR is under construction.

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

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

Construction Noise

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

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

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



Monthly Environmental Monitoring & Audit Report (December 2022)

ID	NS	R ID EIA	in	Location	Status
NMS-8^	No.			1m from the exterior of the building	Active
	Yau		Tong	façade and facing the construction site	
	Villag	ge	-		

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

- (*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.
- (@) NMS-2 was effective on 15 November 2019.
- (:) NMS-3 was effective on 3 December 2019
- (#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 November 2017.
- (~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.
- () Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

Addition Construction Noise Monitoring Location

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

ID	Location	Description
CN1*	Holm Glad College	Ground floor of Holm Glad College, where 1m from the exterior of the building facing E8
CN2*	Leung Shek Chee College	Ground floor of Leung Shek Chee College, where 1m from the exterior of the building facing E8
CN3	Oi Tat House of On Tat Estate	Ground floor of Oi Tat House of On Tat Estate, where 1m from the exterior of the building facing System A

Additional Impact Monitoring Stations - Construction Noise Table 3-4

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

(*) Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1&CN2 was on 15 September 2022.

3.4 MONITORING FREQUENCY AND PERIOD

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

Air Quality Monitoring

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

Noise Monitoring

3.4.3 Noise monitoring will be to conduct at the all available designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:



• one set of Leq_(30min) measurements between 07:00 and 19:00 hours on normal weekdays

3.5 MONITORING EQUIPMENT

Air Quality Monitoring

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

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

Table 3-5 Air Quality Monitoring Equipment

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

<u>Noise Monitoring</u>

- 3.5.3 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms-1.
- 3.5.4 Noise equipment as perform for construction phase monitoring is listed in *Table 3-6*.

Table 3-6Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	NL-31, NL-52
Calibrator	NC-75
Portable Wind Speed Indicator	Anemometer AZ Instrument 8908

3.6 MONITORING METHODOLOGY

<u>1-hour TSP</u>

- 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

 $Z: Jobs \ 2016 \ TCS 00864 \ (CEDD) \ 600 \ EM\&A \ Report \ Submission \ Monthly \ EM\&A \ Report \ 2022 \ Ro619v2. \ docx \ Ro619v2. \ Ro619v$



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

Noise Monitoring

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



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

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

Meteorological Information

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

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

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

Monitoring Station	Action Lev	vel ($\mu g / m^3$)	Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP 24-hour TSP		1-hour TSP	24-hour TSP	
AMS-1	313	154	500	260	
AMS-1a(*)	313	154	500	260	
AMS-2	319	165	500	260	
AMS-3	319	165	500	260	

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

CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works N



Monthly	Environmental M	onitoring & Auc	lit Report (]	December 2022)

Monitoring Station	Action Lev	vel ($\mu g / m^3$)	Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP 24-hour TSP		1-hour TSP	24-hour TSP	
AMS-4	315	165	500	260	
AMS-5	299	166	500	260	
AMS-6	303	168	500	260	
AMS-7	307	156	500	260	

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

Table 3-8	Action and Limit Levels for Construction Noise	

Marianta	Action Level	Limit Level in dB(A)			
Monitoring Location	Time Period: 0700-1900 hours on normal weekdays				
NMS-1		70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}			
NMS-2(@)		70 dB(A) = 703 dB(A)			
NMS-3(:)		75 dB(A)			
NMS-4*		75 dB(A)			
NMS-4a#		75 dB(A)			
NMS-5#	When one or more documented	75 dB(A)			
NMS-6~	complaints are received	75 dB(A)			
NMS-7~	_	75 dB(A)			
NMS-8^		75 dB(A)			
CN1+		70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}			
CN2+		70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}			
CN3+		75 dB(A)			

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

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

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

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

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

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

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

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

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

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

3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL

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



4. AIR QUALITY MONITORING

4.1 GENERAL

- 4.2.1 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. Liaise with the planned school of AMS-4 for installation of monitoring equipment at rooftop is in progress.
- 4.2.2 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

4.3 RESULTS OF AIR QUALITY MONITORING

4.3.1 In the Reporting Period, a total of *108* events of 1-hour TSP monitoring and *20* events of 24-hours TSP were carried out and the monitoring results are summarized in *Tables 4-1 to 4-5*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

	24-hour	1-hour TSP (µg/m ³)				
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
6-Dec-22	42	2-Dec-22	13:22	63	60	61
12-Dec-22	53	8-Dec-22	14:18	68	71	66
17-Dec-22	18	14-Dec-22	14:20	57	60	56
22-Dec-22	23	20-Dec-22	14:10	67	70	68
28-Dec-22	35	23-Dec-22	13:28	68	76	63
		30-Dec-22	14:10	64	67	65
Average (Range)	34 (18 - 42)	Average (Range)			65 (56 - 76)	

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

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

1-hour TSP (µg/m ³)							
Date	Start Time	Start Time 1 st reading 2 nd reading 3 rd reading					
2-Dec-22	15:41	65	67	63			
8-Dec-22	14:45	69	75	73			
14-Dec-22	14:47	59	61	60			
20-Dec-22	14:33	69	72	70			
23-Dec-22	13:55	68	71	70			
30-Dec-22	14:33	67	70	65			
Average	Average (Range) 67 (59 – 75)						

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

1-hour TSP (μg/m ³)						
Date	Start Time	1 st reading	2 nd reading	3 rd reading		
2-Dec-22	15:49	63	66	61		
8-Dec-22	15:46	69	72	70		
14-Dec-22	14:59	55	62	60		
20-Dec-22	14:45	67	71	65		
23-Dec-22	14:10	72	69	68		
30-Dec-22	14:41	67	70	65		
Average	Average (Range) 66 (55 – 72)					



	24-hour		g/m ³)			
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading
6-Dec-22	26	2-Dec-22	9:26	72	75	73
12-Dec-22	57	8-Dec-22	9:06	80	78	81
17-Dec-22	46	14-Dec-22	9:18	62	65	66
22-Dec-22	45	20-Dec-22	9:08	80	83	79
28-Dec-22	62	23-Dec-22	9:16	80	85	78
		30-Dec-22 9:08 73 77 77		75		
Average	47	Averag	ge	76		
(Range)	(26 - 62)	(Range	e)	(62 - 85)		

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

	24-hour	1-hour TSP (µg/m ³)					
Date	TSP (µg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
6-Dec-22	30	2-Dec-22	10:39	76	77	74	
12-Dec-22	52	8-Dec-22	10:21	82	79	83	
17-Dec-22	26	14-Dec-22	10:30	62	67	65	
22-Dec-22	27	20-Dec-22	10:28	80	83	78	
28-Dec-22	31	23-Dec-22	9:22	81	86	79	
		30-Dec-22	10:29	80	79	82	
Average (Range)	33 (27 - 52)	Averag (Range	-		77 (62 - 86)		

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

	24-hour	1-hour TSP (µg/m ³)					
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
6-Dec-22	20	2-Dec-22	9:00	75	77	73	
12-Dec-22	32	8-Dec-22	13:03	77	75	78	
17-Dec-22	34	14-Dec-22	8:58	63	68	62	
22-Dec-22	25	20-Dec-22	8:50	76	78	75	
28-Dec-22	50	23-Dec-22	9:40	80	78	82	
		30-Dec-22	8:53	74	77	78	
Average (Range)	34 (20 - 50)	Averag (Range			75 (62 - 82)		

- 4.3.2 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.
- 4.3.3 The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5. CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.2.1 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. Liaise with the planned school of NMS1 for noise monitoring at rooftop is in progress.
- 5.2.2 In addition, a Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations, i.e., CN1, CN2 and CN3 for Contract 3. Impact noise monitoring was performed at the three additional noise monitoring locations since December 2018. Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1&CN2 was on 15 September 2022.
- 5.2.3 The noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

5.3 NOISE MONITORING RESULTS IN REPORTING MONTH

5.3.1 In the Reporting Period, a total of **35** 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*.

	Construction Noise Level (L _{eq30min}), dB(A)								
Date	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7	NMS8		
2-Dec-22	63	63	70	70	67	68	63		
8-Dec-22	62	64	70	70	66	69	63		
14-Dec-22	63	62	70	71	66	67	67		
20-Dec-22	62	62	69	70	67	68	64		
29-Dec-22	62	62	68	71	66	67	56		
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}	75 dB(A)							

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

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

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

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

Co	Construction Noise Level (Leq30min), dB(A)				
Date	CN3				
2-Dec-22	64				
8-Dec-22	65				
14-Dec-22	66				
20-Dec-22	64				
29-Dec-22	62				
Limit Level	75 dB(A)				

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



5.3.3 As shown in *Tables 5-1 and 5-2*, no Limit Level exceedance was recorded in this Reporting Period. No noise complaint (which triggered Action level exceedance) was received under the Project.



6. WASTE MANAGEMENT

6.1 GENERAL WASTE MANAGEMENT

6.2.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

6.3 **RECORDS OF WASTE QUANTITIES**

- 6.3.1 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.
- 6.3.2 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 6-1* and *6-2* and the Monthly Summary Waste Flow Table is shown in *Appendix K*. Whenever possible, materials were reused on-site as far as practicable.

Type of	Cont	ract 1	Cont	tract 2	Cont	ract 3	Cont	ract 4	Cont	ract 5
Waste	Quantity	Disposal Location								
Total generated Inert C&D Materials ('000m ³) (#)	22.985	-	0.02	-	1.333	-	0	-	0.293	-
Hard Rock and Large Broken Concrete ('000m ³)	0	-	0	-	0	-	0	-	0.279	-
Reused in this Contract (Inert) ('000m ³)	0	-	0	-	0.540	-	0	-	0.014	-
Reused in other Projects (Inert) ('000m ³)	22.653	*	0	-	0	-	0	-	0	-
Disposal as Public Fill (Inert) ('000m ³)	0.332	-	0.02	TKO 137	0.793	TKO 137	0	-	0.279	ТКО 137

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

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

(*) Approved alternative disposal ground.



Turne of	Cont	ract 1	Cont	cract 2	Cont	ract 3	Contract 4		Contract 5	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0	Licensed collector	0	-	0	-	0	-	0	-
Recycled Paper / Cardboard Packing ('000kg)	0	-	0	-	0	_	0	-	0	-
Recycled Plastic ('000kg)	0	Licensed collector	0	-	0.224	Licensed collector	0	-	0	-
Chemical Wastes ('000kg)	0	-	0	-	0	-	0	-	0	-
General Refuses ('000m ³)	0.062	SENT	0.09	SENT	0.043	SENT	4.950	SENT	0.0.15	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 8, 13, 20 and 29 December 2022 in which IEC joined the site inspection with SSEMC on 8 December 2022. 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
8 December 2022	• NRMM label and NEL should be displayed properly for air compressor using on-site. (G2 site)	• NRMM label and NEL were displayed properly for air compressor using on-site.
	• Water spraying frequency for the haul road and exposed area should be increase during dry season to reduce dust impact. (G2 Site)	Reminder only.
13 December 2022	• No adverse environmental issue was observed during site inspection.	• NA
20 December 2022	• Stockpile of bag cement should be covered with tarpaulin when storage. (G2 Site)	 Stockpile of bag cement was covered with tarpaulin.
	• Three sides with top shelter should be provided for cement mixing area for grouting works. (G2 Site)	• Three sides with top shelter were provided for cement mixing area.
	• Earth bund should be provided for the gully to prevent loose materials falling in. (G5 Site)	Reminder only.
29 December 2022	• No adverse environmental issue was observed during site inspection.	• NA

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 7, 14, 21 and 28 December 2022 in which IEC joined the site inspection with SSEMC on 28 December 2022. No non-compliance was noted. The findings / deficiencies of *Contract 2* that observed during the weekly site inspection are listed in *Table 7-2*.

Table 7-2Site Observations of Contract 2

Date	Findings / Deficiencies	Follow-Up Status
7 December 2022	• Empty cement bag should be disposed properly to reduce dust generation. (Portion 2)	• Empty cement bags were disposed properly.
14 December 2022	• The Contractor was reminded to cover any opened cement bag with impervious sheet to reduce dust generation.	



Monthly Environmental Monitoring & Audit Report (December 2022)

Date	Findings / Deficiencies	Follow-Up Status
	• The Contractor was reminded to dispose construction waste regularly.	• Reminder only.
21 December 2022	• The Contractor was reminded to enhance house-keeping at portion 2	• Reminder only.
28 December 2022	• The Contractor was reminded the empty cement bags should be removing to reduce dust generation.	• Reminder only.
	• The Contractor reminded opened cement bags should be covered properly to reduce dust generation.	• 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 2, 9, 16, 19 and 30 December 2022 in which IEC joined the site inspection with SSEMC on 19 December 2022. 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
2 December 2022	• Stagnant water at drip tray under generation should be removed.	• Stagnant water at drip tray was cleared.
	• The Contractor was reminded to cover the cement stockpile when not in use.	Reminder only
9 December 2022	 The Contractor was reminded to dispose of the emptied cement bags with proper handling. 	Reminder only
16 December 2022	• The Contractor was reminded to remove any stagnant water on site after rainy days.	Reminder only
19 December	• The Contractor was advised to cover stockpiles	Stockpile of cement
2022	of cement bags properly at E8.	bags were removed.
30 December	• The Contractor should remove the stagnant	• Stagnant water was
2022	water to prevent mosquito breeding. (System A)	removed.

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

Contract 4

7.2.4 In the Reporting Period, joint site inspections for Contract 4 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 7, 14, 22 and 29 December 2022 in which IEC joined the site inspection with SSEMC on 22 December 2022. No non-compliance was noted. The findings / deficiencies of Contract 4 that observed during the weekly site inspection are listed in Table 7-4

Table 7-4 Site Observations of Contract 4

Date	Findings / Deficiencies	Follow-Up Status		
7 December 2022	• Drip tray should be provided for chemical storage on-site. (Portion 8)	• The chemical container was removed.		
	• Proper dust mitigation measure should be provided for the haul road and exposed area to reduce dust impact during dry season. (Portion 8)	Reminder only		
	• Housekeeping should be improved. C&D	Reminder only		



Monthly Environmental Monitoring & Audit Report (December 2022)

Date	Findings / Deficiencies	Follow-Up Status
	waste cumulated on-site should be cleaned more frequency. (Portion 8)	
14 December 2022	• No adverse environmental issue was observed during site inspection.	• NA
22 December 2022	• The Contractor was reminded to spray water at exposed work area and haul road regularly.	Reminder only
29 December 2022	• No adverse environmental issue was observed during site inspection.	• NA

Contract 5

7.2.5 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 1, 8, 15, 23 and 29 December 2022 in which IEC joined the site inspection on 23 December 2022. No non-compliance was noted. The findings / deficiencies of *Contract 5* that observed during the weekly site inspection are listed in *Table 7-5*

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

Date	Findings / Deficiencies	Follow-Up Status	
1 December	• The Contractor was advised to dispose of	• Empty cement bags	
2022	empty cement bags properly at E7.	were disposed properly.	
8 December	• The Contractor was reminded to cover	Reminder only	
2022	idling stockpile properly to reduce dust		
	generation.		
15 December	• No adverse environmental issue was	• NA	
2022	observed during site inspection.		
23 December	• No adverse environmental issue was	• NA	
2022	observed during site inspection.		
29 December	• No adverse environmental issue was	• NA	
2022	observed during site inspection.		



8. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

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

	Contract	Environmental Complaint Statistics		
Reporting Period	no.	Frequency	Cumulative	Complaint Nature
1 Apr 2017 –3 0 November 2022	1	0	63	Dust, Noise, Water and light nuisance
21 Mar 2017 – 30 November 2022	2	0	10	Noise
31 May 2018 –3 0 November 2022	3	0	8	Waste Management, Noise, Water Quality
27 Sep 2021 – 30 November 2022	4	0	4	Water Quality/Air Quality
30 Mar 2021 –30 November 2022	5	0	0	NA
	1	0	63	NA
	2	0	10	NA
1 – 31 December 2022	3	0	8	NA
	4	0	4	NA
	5	0	0	NA

 Table 8-1
 Statistical Summary of Environmental Complaints

Table 8-2 Statistical Summary of Environmental Summons

Donouting David	Contract	Environmental Summons Statistics		
Reporting Period	no.	Frequency	Cumulative	Summons Nature
1 Apr 2017 –3 0 November 2022	1	0	0	NA
21 Mar 2017 – 30 November 2022	2	0	0	NA
31 May 2018 –3 0 November 2022	3	0	0	NA
27 Sep 2021 – 30 November 2022	4	0	0	NA
30 Mar 2021 –30 November 2022	5	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 31 December 2022	3	0	0	NA
	4	0	0	NA
	5	0	0	NA

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

Departing Devied	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
1 Apr 2017 –3 0 November 2022	1	0	0	NA

CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works



Monthly Environmental Monitoring & Audit Report (December 2022)

Donouting Daviad	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
21 Mar 2017 – 30 November 2022	2	0	0	NA
31 May 2018 –3 0 November 2022	3	0	0	NA
27 Sep 2021 – 30 November 2022	4	0	0	NA
30 Mar 2021 –30 November 2022	5	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 31 December 2022	3	0	0	NA
	4	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 weasures
Issues	Environmental Mitigation Measures
Water Quality	 Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge. Replace silt curtain materials if necessary
Air Quality	 Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site All vehicles must use wheel washing facility before off site Sprayed water during breaking works
Noise	 Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used.
Waste and Chemical Management	 On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal
General	The site was generally kept tidy and clean.

 Table 9-1
 Environmental Mitigation Measures

9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

Contract 1 (NE/2016/01)

Underpass Tunnel

• Construction of Berm at Slope A3

East Portal Area

- Rock filling works for slope feature
- Overall progress for soil nailing works at slope A1
- Rock cut slope A1
- Excavation work for sewage manhole
- Subbase laying work
- Construction at east portal

PC System A

- Concrete pavement laying work
- External and internal ABWF works
- Metal works
- Lift installation and installation of outdoor louvre
- Waterproofing work



Ventilation Building

• External and internal ABWF works

Retaining Wall RWA12

Railing installation

Contract 2 (NE/2016/05)

- Temporary Traffic Arrangement (TTA)
- Mass Concrete construction
- Formwork and Falsework installation and dismantling
- Lift Installation and lift Tower Construction
- Rebar fixing

Contract 3 (NE/2017/03)

Pedestrian Connectivity Facility E8 (PC-E8)

Touch-up outstanding works and addition works are in progress.

Pedestrian Connectivity Facility E11 (PC-E11)

- The footbridge of PC-E11 was commenced to public on 31 December 2022.
- Remaining works at site Portion E and Portion FII is in-progress.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- ABWF works and E&M works at LT1, LT2 & ST1 are in-progress.
- T&C to lifts at LT1 are in-progress.
- RC works at footbridge are in-progress.

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- Erect footbridge steel frame is in-progress.
- RC works at Pier 1 is in-progress.
- Preparation works for watermain diversion near PC1 is in-progress.

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 2a, 6, 8, 9 & 12
- Drainage works at Portion 2a, 6, 8, 9 & 12
- Construction of Retaining Wall (Portion 6,8,12)
- Construction of Planter at Portion 8,12
- Slope works at Portion 10, Portion 17
- Preparation works for Construction of bridge at Portion 13b
- Modification works at RWA10 at Portion 13b
- Modification works at RWA9 at Portion 13b
- Road works at G2-Site at Portion 13b

Contract 5 (ED/2019/02)

Portion 1

- Construction of Pile at E5-PC1
- Piling Works at E5-PC2
- Replace existing slope soil by Grade 200 Rockfill at E5 PC3

Portion 2

- Construction of Pier at E6-PC1
- Construction of abutment at E6-PC3
- Construction of Pile Cap at E6-PC2



Portion 3

- Install mini-piles at 72mPD & temp. solider piles for 69mPD platform
- Lower down slope to form piling platform at +69.0mPD
- Construction of footing at E7-P2

Portion 4

Scaffolding erection at E10-F1

9.3 KEY ISSUES FOR THE COMING MONTH

- 9.3.1 Key issues to be considered in the coming month include:
 - Implementation of dust suppression measures at all times;
 - Potential wastewater quality impact due to surface runoff;
 - Potential fugitive dust quality impact due from the dry/loose/exposure soil surface/dusty material;
 - Disposal of empty engine oil containers within site area;
 - Ensure dust suppression measures are implemented properly;
 - Sediment catch-pits and silt removal facilities should be regularly maintained;
 - Management of chemical wastes;
 - Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
 - Follow-up of improvement on general waste management issues; and
 - Implementation of construction noise preventative control measures
- 9.3.2 During dry season, the Contractor should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement
- 9.3.3 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 **69th** monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from **1** to **31 December 2022**.
- 10.1.2 No 24-hour or 1-hour TSP monitoring and noise monitoring results that triggered the Action or Limit Levels were recorded. No NOEs or the associated corrective actions were therefore issued.
- 10.1.3 In the Reporting Period, no exceedance was recorded and no Notification of Exceedance was issued. Moreover, no noise complaints (which triggered Action Level) were received for the Project.
- 10.1.4 In the Reporting Period, no environmental complaint was received.
- 10.1.5 No notification of summons or successful prosecution was received under the Project.
- 10.1.6 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 1, 2, 3, 4 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

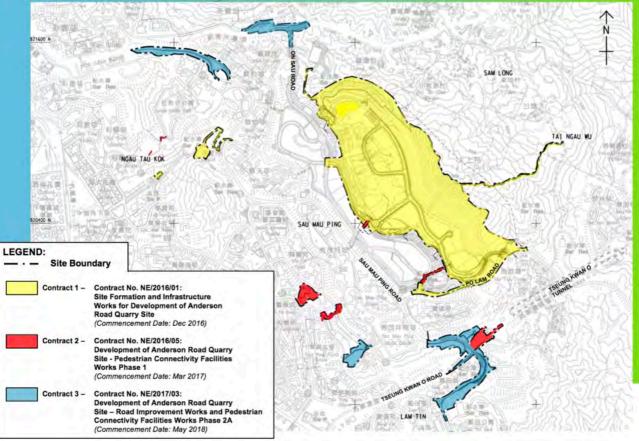
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.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



Appendix A

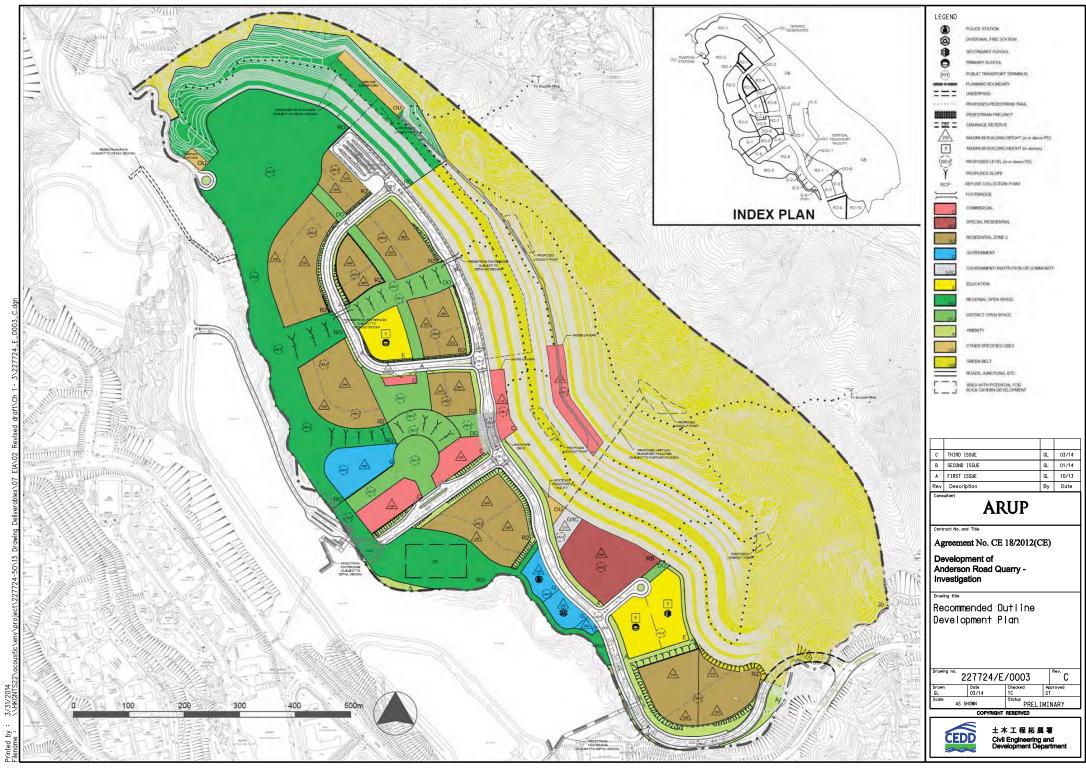
Layout plan of the Project

Contract Packages





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

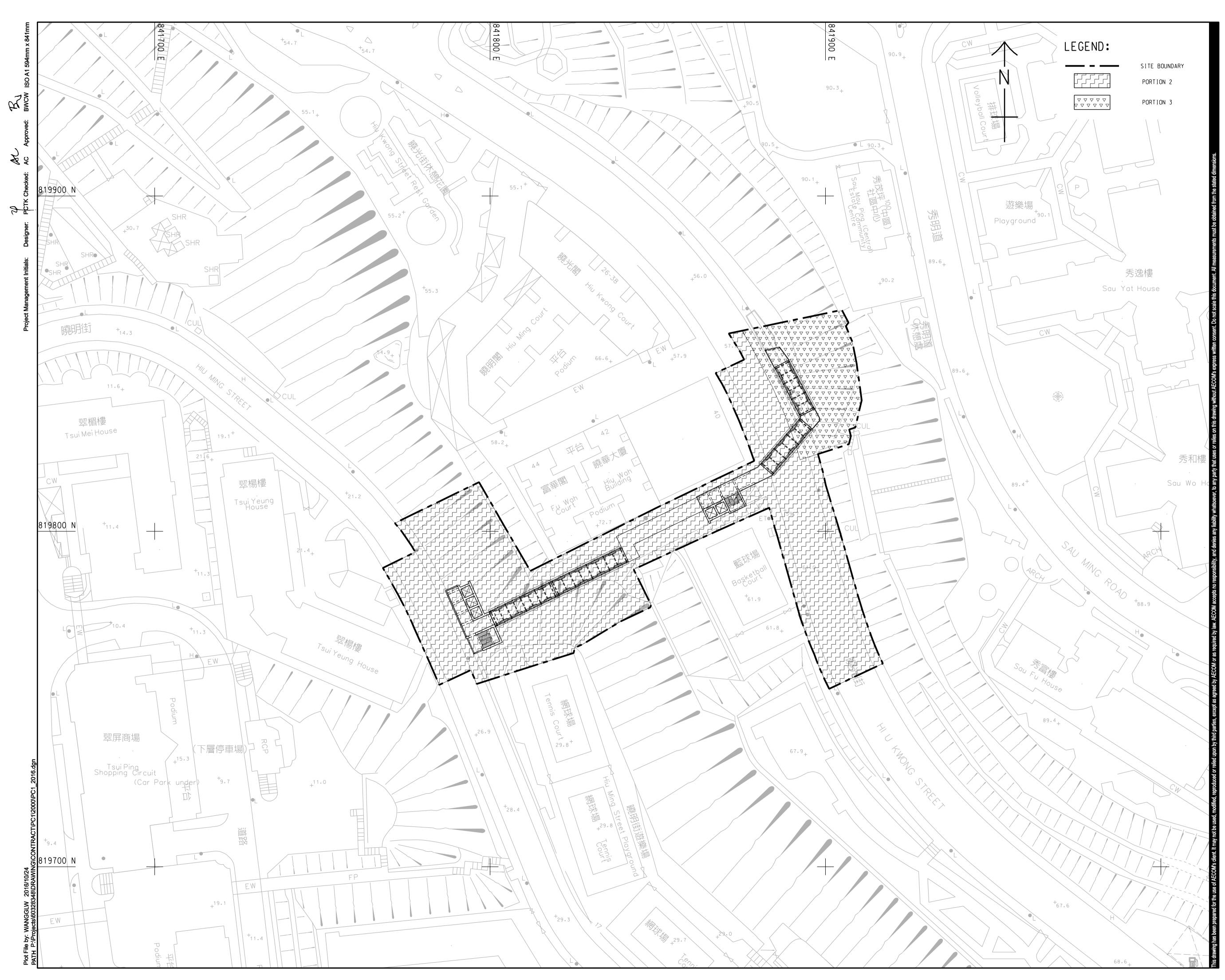


Printed by



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

 $Z: Jobs 2016 TCS00864 \ (CEDD) \\ 600 \\ EM\&A \ Report \ Submission \\ Monthly \ EM\&A \ Report \\ 2022 \\ December \ 2022 \\ R0619v2. docx \\ R0619v2. \\ R0619v$





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



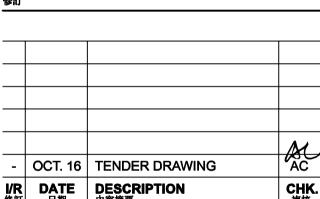
上木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



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

SCALE 比例

A1 1 : 500

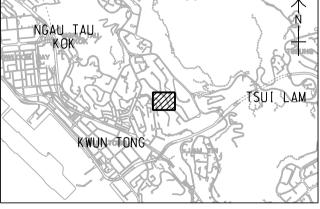
			M
-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
			I

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

STATUS 階段

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

KEY PLAN A1 1 : 60000 索引圖



PROJECT NO. _{項目編}號

CONTRACT NO. ^{合約編號}

60328348

DIMENSION UNIT ^{尺寸單位}

METRES

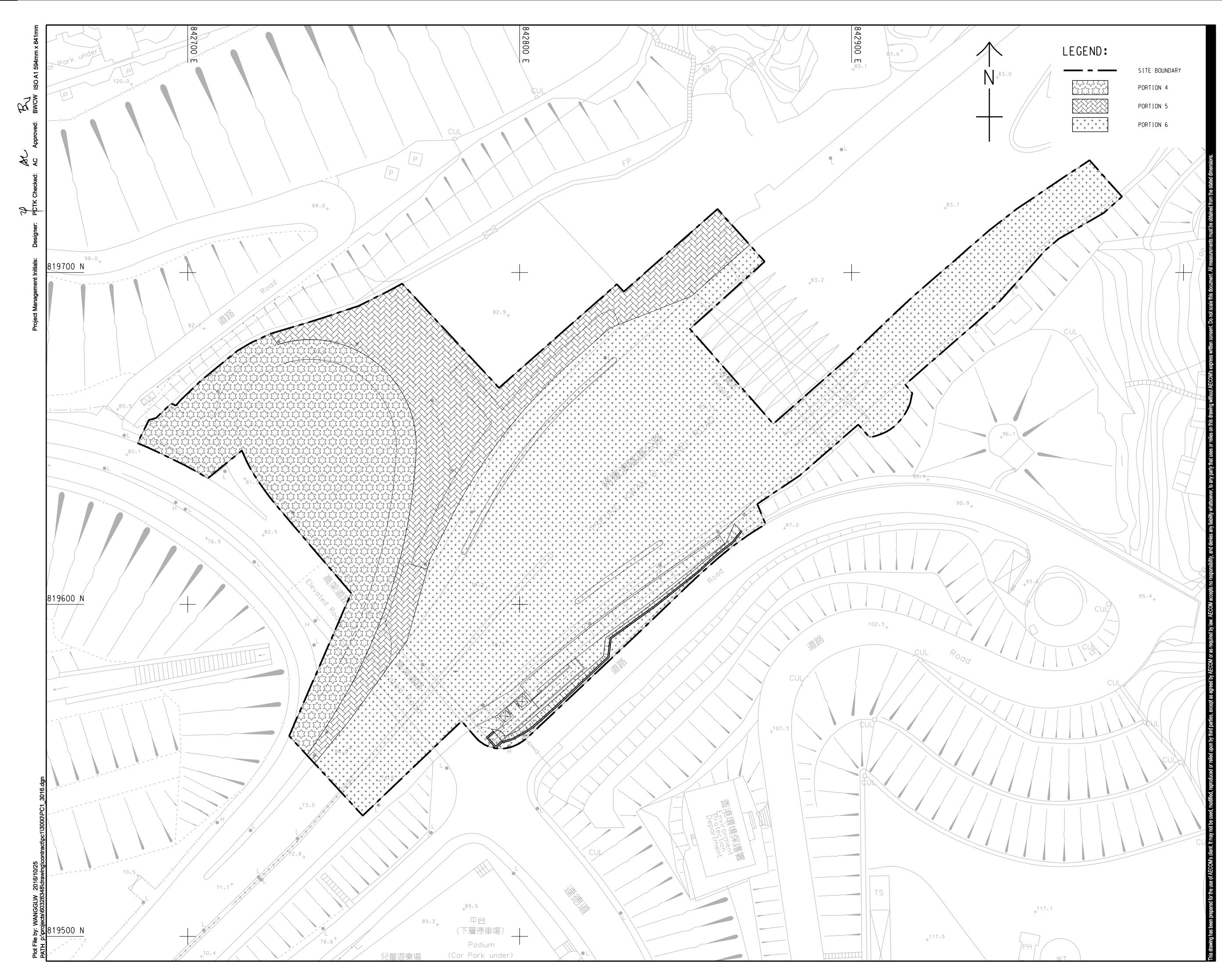
NE/2016/05

SHEET TITLE 圖紙名稱

E2-C1-E3 - PORTION OF SITE

SHEET NUMBER 岡紙編號

60328348/PC1/2016





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主

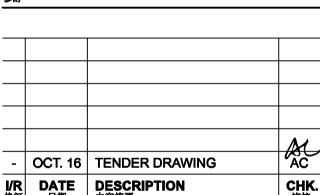


CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



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

	00T 40		- Al
	OCT. 16		
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
	ATUO		I

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

			M
1	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
<u>от</u>	ATUQ		

SCALE _{比例}

A1 1 : 500

NGAU TAU KOK

KWUN TONG

KEY PLAN A1 1 : 60000 索引圖

STATUS 階段

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



DIMENSION UNIT 尺寸單位

METRES

60328348

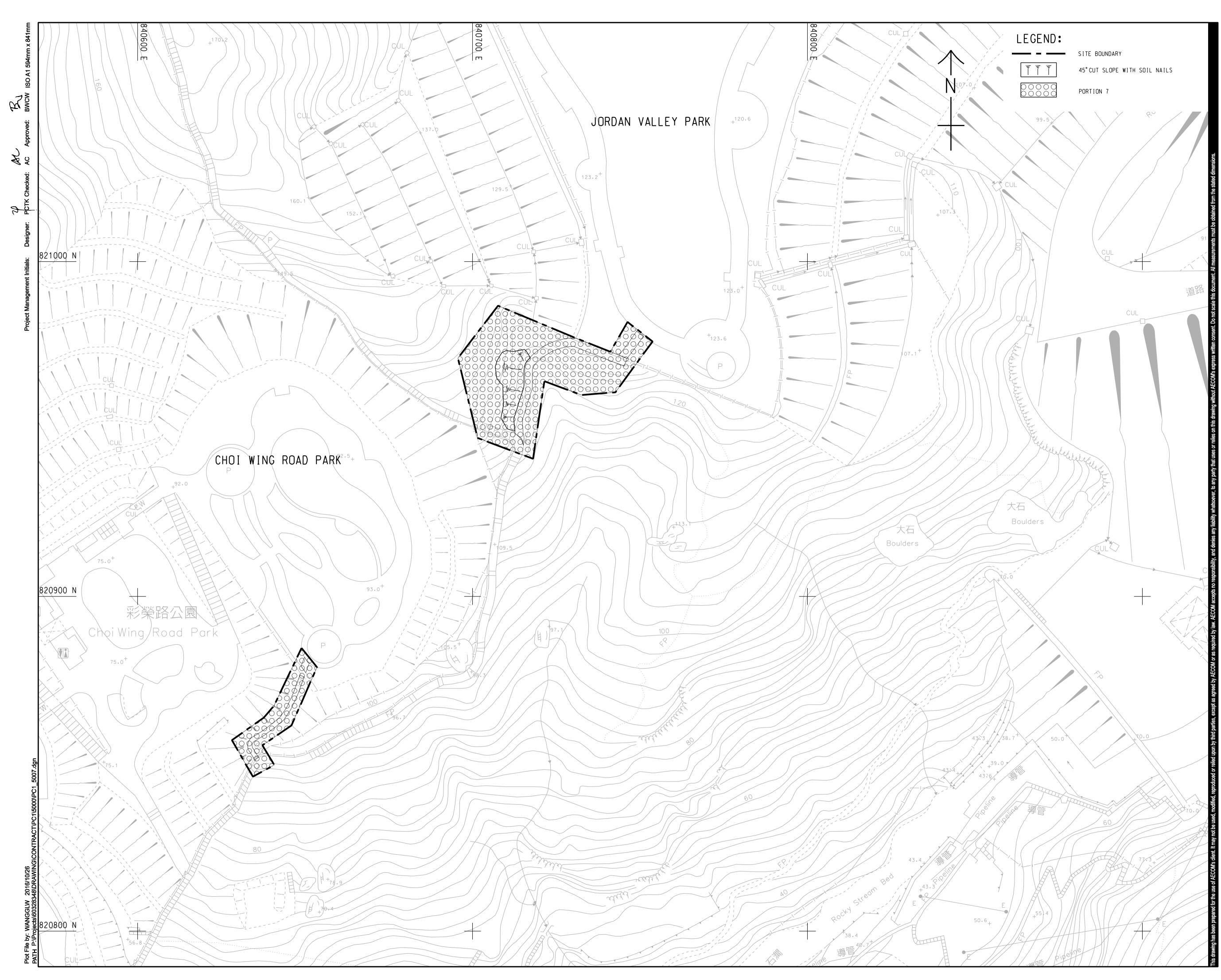
PROJECT NO. 項目編號

NE/2016/05 SHEET TITLE 圖紙名稱

E12 AND BBI - PORTION OF SITE

SHEET NUMBER 圖紙編號

60328348/PC1/3016





PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



上木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

			M
-	OCT. 16	TENDER DRAWING	AC
I/R	DATE	DESCRIPTION	СНК

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

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

DIMENSION UNIT 尺寸單位

METRES

LAMTIN

CONTRACT NO. ^{合約編號}

NE/2016/05

STATUS 階段

SCALE 比例

A1 1 : 500

NGAU CHT WAN

KOWLOON BAY

PROJECT NO. ^{項目編}號

SHEET TITLE 圖紙名稱

60328348

KEY PLAN A1 1 : 60000 家引圖

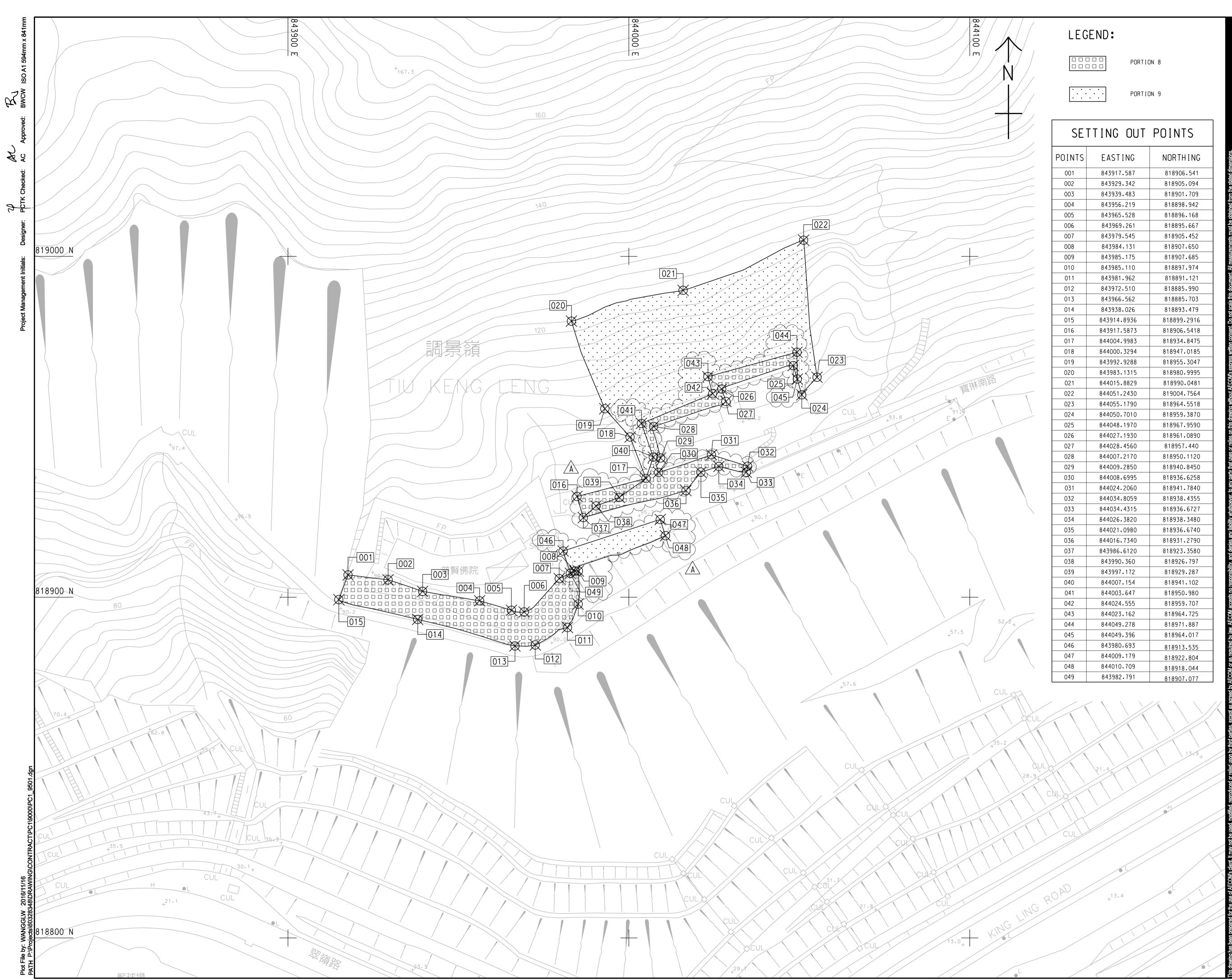
1

KWUN TONG

GREEN ROUTE - PORTION OF SITE

SHEET NUMBER 圖紙編號

60328348/PC1/5007





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



PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT _{業主}



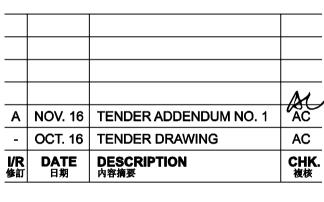
た木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



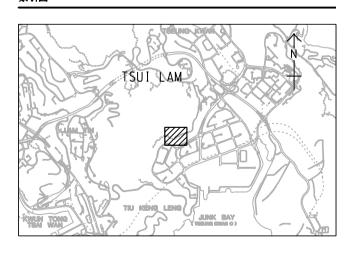
STATUS 階段

SCALE 比例



DIMENSION UNIT ^{尺寸單位} METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

CONTRACT NO. ^{合約編號}

60328348

NE/2016/05

SHEET TITLE 圖紙名稱

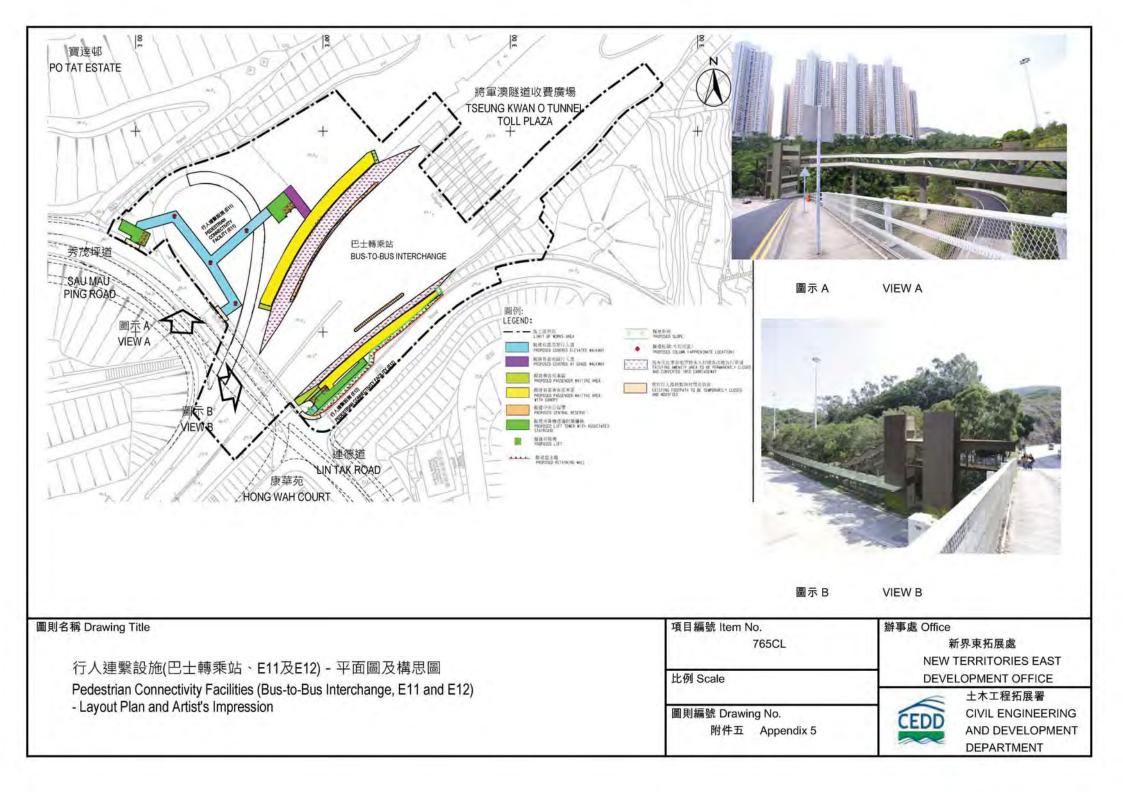
INFRASTRUCTURAL WORKS AT PO LAM ROAD SOUTH TIU KENG LENG – PORTION OF SITE

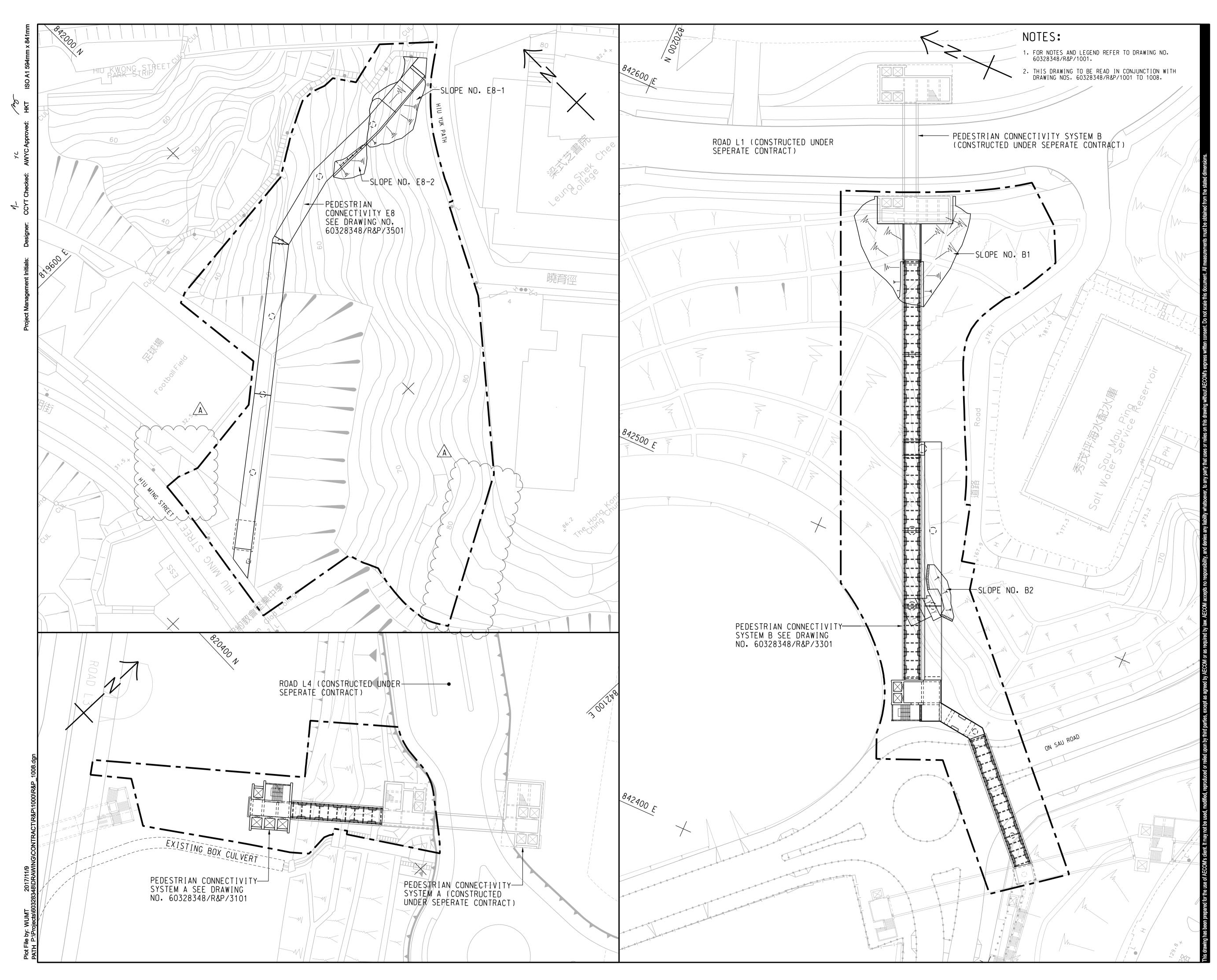
SHEET NUMBER 圖紙編號

60328348/PC1/9501A



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







PROJECT ^{項目}

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

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



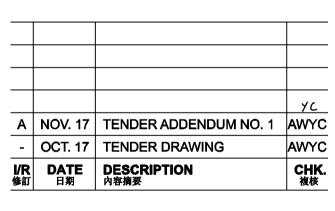
全林工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



STATUS ^{階段}

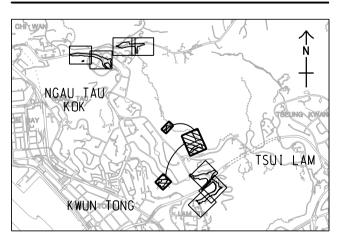
SCALE 比例

A1 1 : 500

DIMENSION UNIT _{尺寸單位}

METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

SHEET 8 OF 8

60328348

SHEET TITLE 圖紙名稱

SHEET NUMBER 圖紙編號

60328348/R&P/1008A

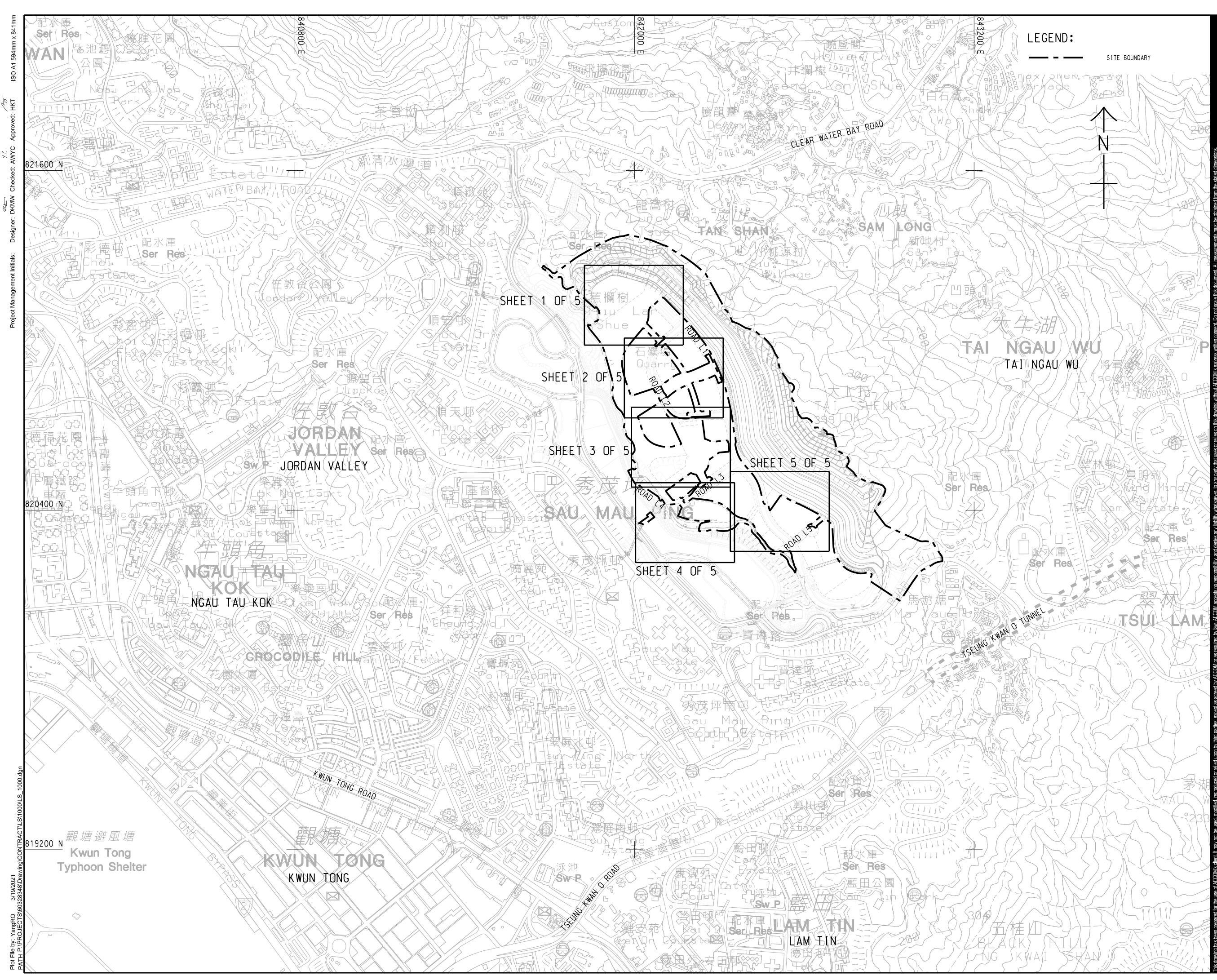
CONTRACT NO. ^{合約編}號

NE/2017/03

GENERAL LAYOUT



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



γC



PROJECT

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

CONTRACT TITLE DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INFRASTRUCTURE, GREENING AND LANDSCAPE WORKS

CLIENT



 CEDD

 土木工程拓展署

 CEDD

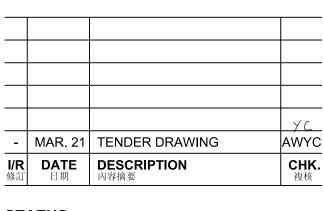
 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION



SCALE 比例	DIMENSION UNIT 尺寸單位
A1 1 : 6000	METRES
KEY PLAN ^{委山國}	

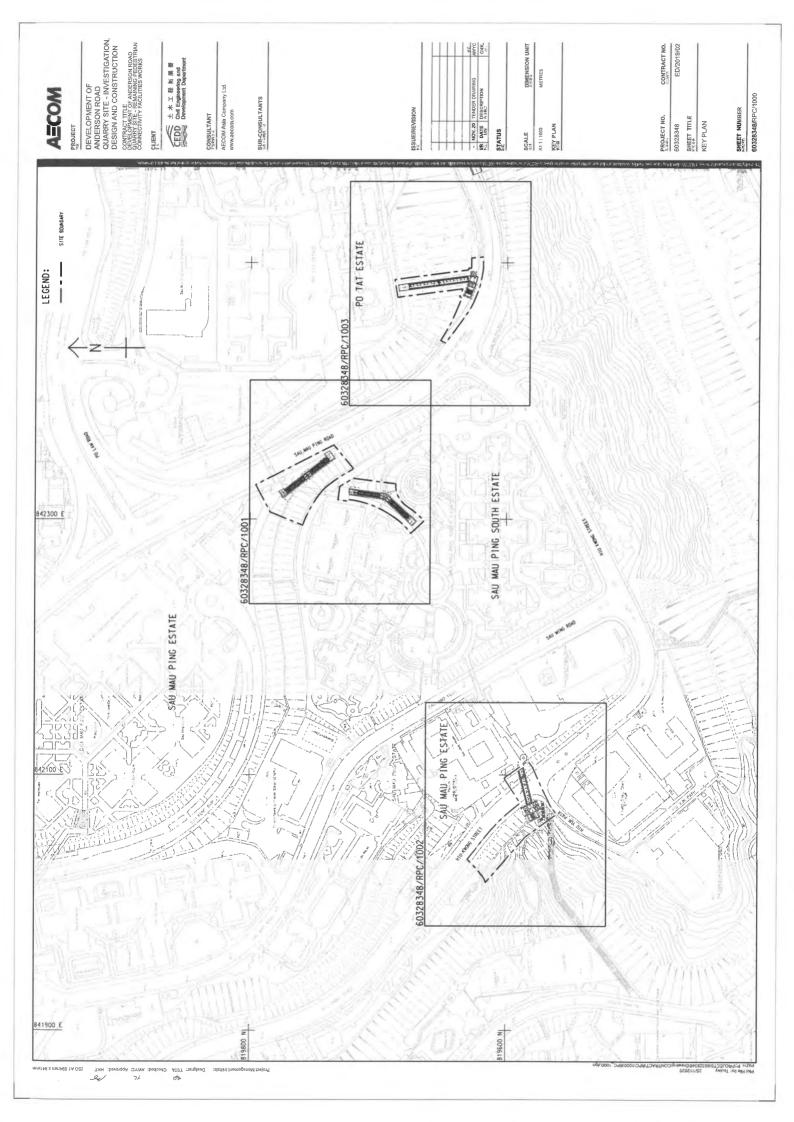
PROJECT NO. ^{項目編號} CONTRACT NO. _{合約編號} ED/2020/02 60328348 **SHEET TITLE** 圖紙名稱 KEY PLAN

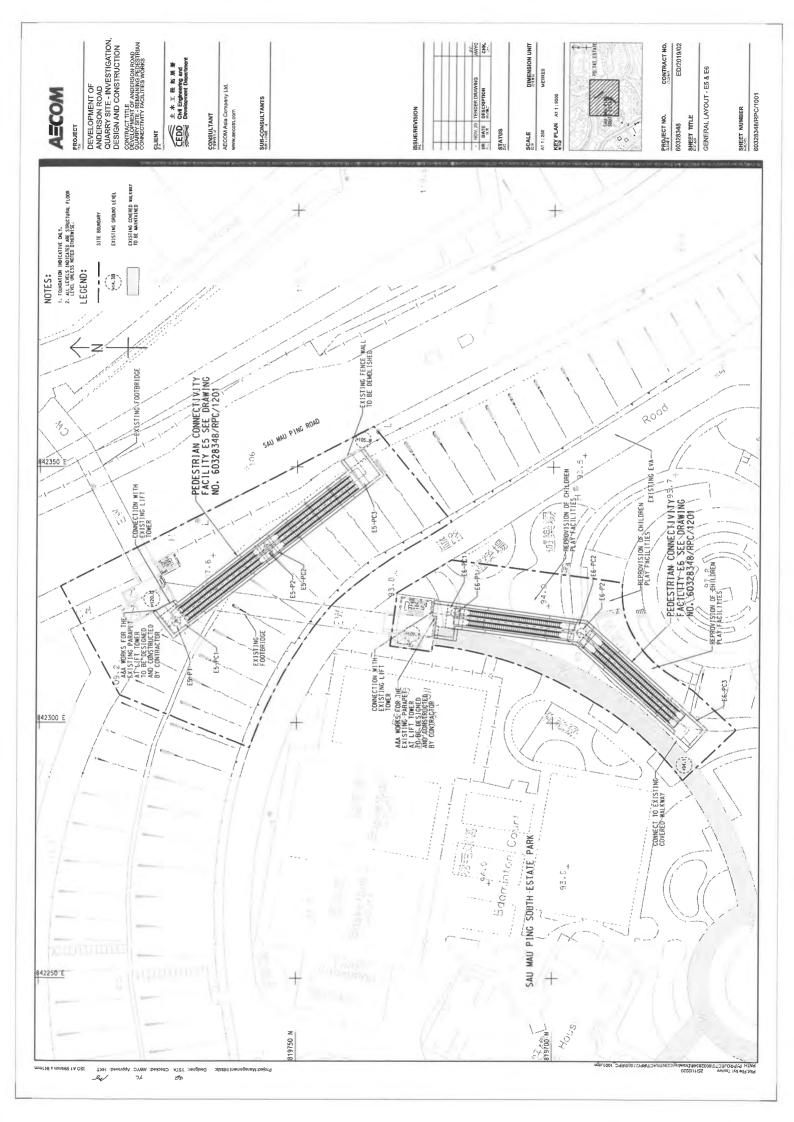
SHEET NUMBER 圖紙編號

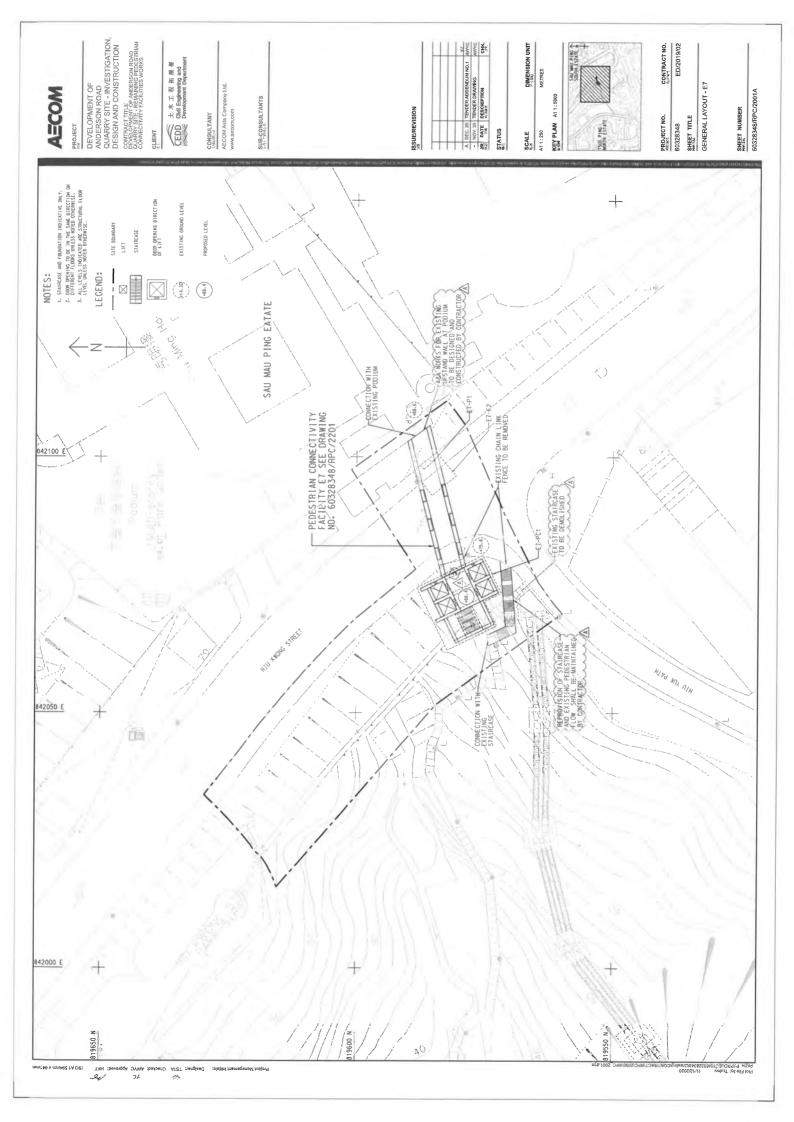
60328348/LS/1000

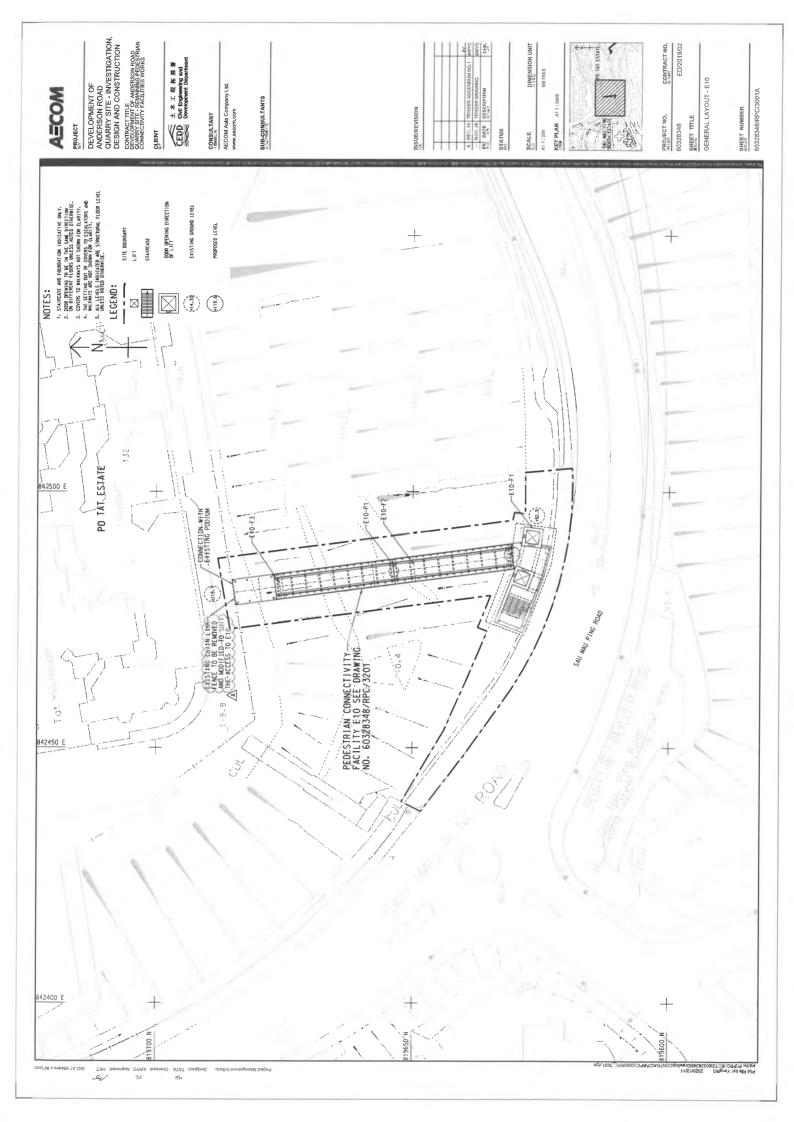


Layout plan of Contract 5 (ED/2019/02)









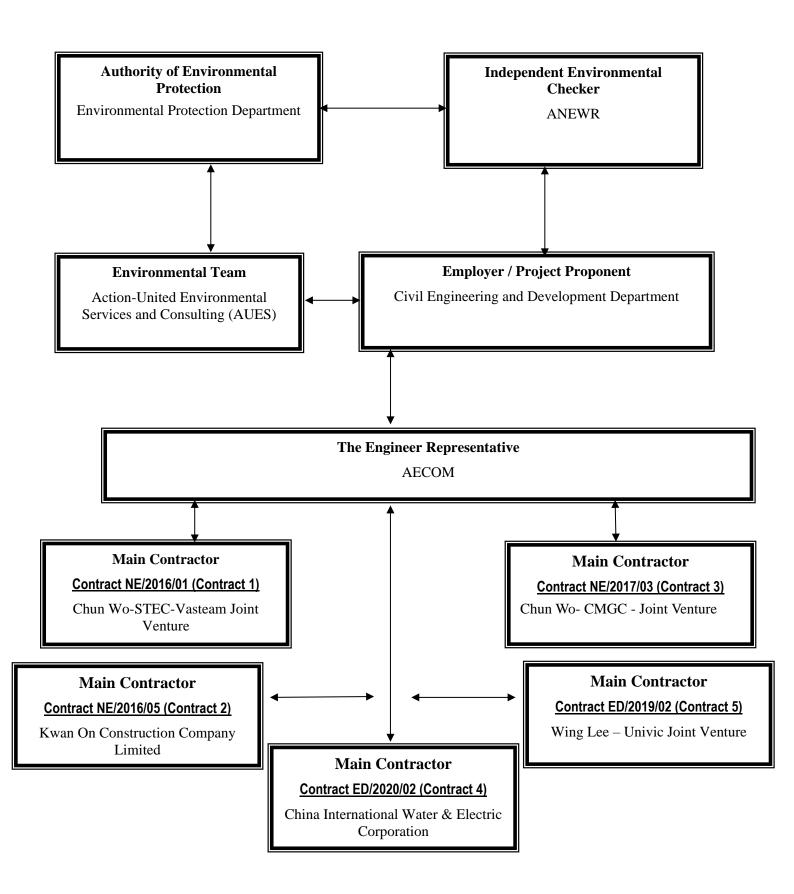


Appendix B

Project Organization Structure



Project Organization Structure





Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Li, Ling Tommy	9389 8792	2473 3221
ANEWR	NEWR 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	VJV Environmental Officer Ken Chu		2638 7181	2744 6937
AUES	UES Environmental Team Leader T. W. Tam		2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

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

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

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

ANEWR (IEC) - ANewR Consulting Limited

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Bill Hon	5599 1466	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
KOCCL	Project Director	Ambrose Kwong 28		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	Ken Tam	9555 9958	2558 6900
KOCCL	CCL Environmental Supervisor Kenny Chan 5542		5542 4335	2558 6900
AUES	Environmental Team Leader	vironmental Team Leader T. W. Tam 2959 6059		2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

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

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

KOCCL (Main Contractor) -Kwan On Construction Company Limited

ANEWR (IEC) – ANewR Consulting Limited

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	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	Yu, Chi Kuen Paul	9456 9819	3965 9900
CW – CMGC - JV	Environmental Officer	King Lam	9570 6187	3965 9900
CW – CMGC - JV	Environmental Supervisor	Anna Tsang	9333 8499	3965 9900
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	AUES Environmental Consultant		2959 6059	2959 6079

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

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

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

ANEWR (IEC) – ANewR Consulting Limited

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Li, Ling Tommy	9389 8792	2473 3221
ANEWR	Independent Environmental Checker	lames Choi		3007 8648
CIWEC	Project Director	Kevin, Chan Ka Shing	6159 9750	2508 0987
CIWEC	Site Agent	Sunny. Tam Tai Shing	9197 2452	2508 0987
CIWEC	Environmental Officer	Leung King On	9034 2130	2508 0987
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079

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

Legend:

- CEDD (Employer) Civil Engineering and Development Department
- AECOM (Engineer) AECOM Asia Co. Ltd.
- CIWEC (Main Contractor) China International Water & Electric Corporation
- ANEWR (IEC) ANewR Consulting Limited
- AUES (ET) Action-United Environmental Services & Consulting



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	Mr Leung Chi Foon	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	9824 7016	2473 3221
AECOM	Senior Resident Engineer	Bill Hon	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
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 5 - ED/2019/02

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



Appendix C

Construction Programme

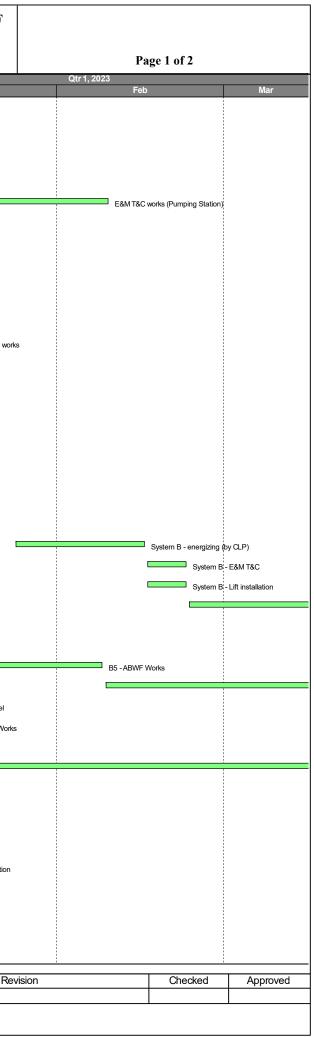
- (a) Contract 1 (NE/2016/01)
- (b) Contract 2 (NE/2016/05)
- (c) Contract 3 (NE/2017/03)
- (d) Contract 4 (ED/2020/02)
- (e) Contract 5 (ED/2019/02)



Contract 1 (NE/2016/01)

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

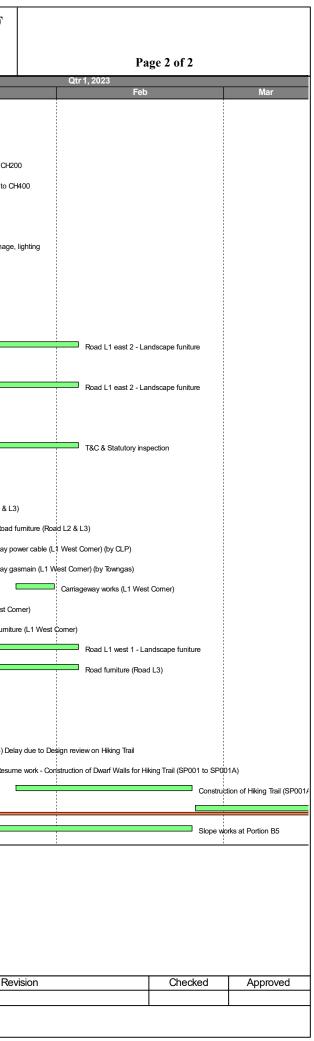
Activity ID	Activity Name	BL Project	BL Project	BL Project	At Completion	Start	Finish	, 2022		
		Duration	Start	Finish	Duration	Stall	Thist	· · · · · · · · · · · · · · · · · · ·	Dec	Jan
	Sub-programme (December 2022 _0) _ccn _221215									
Fresh Water Pur	nping Station									
Stage 5 - ABW	, Finishing & E&M									
FWP-1320	Pumping Station E&M works	590	29-Jun-20	23-Jun-22	743	29-Jun-20 A	23-Dec-22		Pumping Sta	tion E&M works
FWP-1322	Draw pits and cabling works (Pumping Station)	523	16-Sep-20	23-Jun-22	676	16-Sep-20 A	23-Dec-22		Draw pits and	cabling works (Pumping Station)
FWP-1330	E&M T&C works (Pumping Station)	26	07-Jul-22	05-Aug-22	26	07-Jan-23	09-Feb-23			
Salt Water Rese	voir									
ABWF, Finishir	g & E&M									
SWR-1420	Saltwater Reservior E&M works	615	29-May-20	23-Jun-22	768	29-May-20 A	23-Dec-22		Saltwater Re	servior E&M works
SWR-1422	Draw pits and cabling works (Saltwater Reservior)	523	16-Sep-20	23-Jun-22	676	16-Sep-20 A	23-Dec-22		Draw pits and	cabling works (Saltwater Reservior)
Fresh Water Res	ervoir									
ABWF, Finishir	g & E&M									
FWR-2000	Freshwater Reservior E&M works	514	12-Oct-20	07-Jul-22	667	12-Oct-20 A	07-Jan-23			Freshwater Reservior E&M wo
RWS Access Ro	ad & External Works									
FWP-1430	CLP power supply duct	524	16-Sep-20	24-Jun-22	682	16-Sep-20 A	31-Dec-22			CLP power supply duct
FWP-1440	Road Works & Fencing	103	25-Jun-22	27-Oct-22	128	01-Aug-22 A	31-Dec-22			Road Works & Fencing
FWP-1450	Green Roof & Paving Area	88	20-Jul-22	02-Nov-22	79	19-Sep-22 A	21-Dec-22		Green Roof & Pa	vingArea
Pedestrian Con	ection System A & B									
PC system B										
PCB-1090	System B - Backfill south tower	691	16-Feb-20	16-Jun-22	844	16-Feb-20 A	16-Dec-22		System B - Backfill south to	
PCB-1100	System B - Backfill north tower	691	16-Feb-20	16-Jun-22	844	16-Feb-20 A	16-Dec-22		System B - Backfill north to	
	System B - E&M	617		04-Jul-22	770	05-Jun-20 A			System B - Backhii north to	
PCB-1120			05-Jun-20				04-Jan-23	_		System B - E&M
PCB-1122	System B - energizing (by CLP)	19	21-Jul-22	11-Aug-22	19	25-Jan-23	15-Feb-23			
PCB-1130	System B - E&M T&C	436	02-Mar-21	18-Aug-22	589	02-Mar-21 A	22-Feb-23			
PCB-1140	System B - Lift installation	436	02-Mar-21	18-Aug-22	589	02-Mar-21 A	22-Feb-23	_		
PCB-1150	System B - Lift T&C	27	19-Aug-22	20-Sep-22	27	23-Feb-23	25-Mar-23			
PC system A										
PCA-1060	B5 - E&M and BS Works	296	02-Jul-21	29-Jun-22	449	02-Jul-21 A	30-Dec-22			B5 - E&M and BS Works
PCA-1070	B5 - ABWF Works	183	20-Dec-21	04-Aug-22	336	20-Dec-21 A	08-Feb-23			
PCA-1080	B5 - Testing & Commissioning	90	05-Aug-22	21-Nov-22	90	09-Feb-23	31-May-23			
PCA-1160	C1a - Back Fill Lift Tower (South) upwards Formation Level	201	18-Oct-21	22-Jun-22	354	18-Oct-21 A	22-Dec-22		C1a - Back Fill	Lift Tower (South) upwards Formation Level
PCA-1170	C1a - E&M and BS Works	185	22-Nov-21	09-Jul-22	338	22-Nov-21 A	10-Jan-23			C1a - E&M and BS Wor
PCA-1180	C1a - ABWF Works	152	03-Jan-22	09-Jul-22	305	03-Jan-22 A	10-Jan-23			C1a - ABWF Works
PCA-1190	C1a - Testing & Commissioning	90	11-Jul-22	26-Oct-22	90	11-Jan-23	04-May-23	_		
Underpass Tuni	el									
East Portal										
TUN-3620	Tunnel - backfill to east portal	114	01-Apr-22	19-Aug-22	224	01-Apr-22 A	30-Dec-22			Tunnel - backfill to east portal
VE Panels, Roa										
TUN-3590	Tunnel - T&C & Statutory inspection	24	16-Jul-22	12-Aug-22	50	05-Nov-22 A	04-Jan-23			Tunnel - T&C & Statutory inspection
	3, Noise Barrier, RWA12, Utilities & Road Works)									
Road Works - I		200	02 14 04	00 hm 00	F 4 4	00 M 04 4	00 D 00			
L4-4260	L4 (Drainage) - Backfill for water main CH0 to CH200	388	02-Mar-21	22-Jun-22	541	02-Mar-21 A	22-Dec-22			Backfill for water main CH0 to CH200
L4-4280	L4 (Drainage) - Excavate & lay drain CH250 to CH300	388	02-Mar-21	22-Jun-22	541	02-Mar-21 A	22-Dec-22		L4 (Drainage) -	Excavate & lay drain CH250 to CH300
									Date	Re
	nned Bar (WP) wal Bar Milestone (WP)						olling	Programme	15-Dec-22	C1-MPU202212
	ecast Bar			Anderson R	d Sub-prog	ramme				
				15-Dec-22						



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

						J -10101	III KUI	LING I KUGKAMIME		
Activity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish	l, 2022	Dec	lan
L4-4300	L4 (Drainage) - Excavate & lay drain CH350 to CH400	388	02-Mar-21	22-Jun-22	541	02-Mar-21 A	22-Dec-22	100		Jan Excavate & lay drain CH350 to CH400
L4-4310	L4 (Drainage) - Backfill for water main CH200 to CH400	165	29-Nov-21	22-Jun-22	318	29-Nov-21 A	22-Dec-22		L4 (Drainage)	Backfill for water main CH200 to CH400
Watermain & Ut	ilities									
L4-4320	L4 (Watermain & UU) - Constuct watermain & UU CH0 to CH200	151	15-Dec-21	22-Jun-22	304	15-Dec-21 A	22-Dec-22		L4 (Watermain	& UU) - Constuct watermain & UU CH0 to CH20
L4-4330	L4 (Watermain & UU) - Constuct watermain & UU CH200 to CH400	151	15-Dec-21	22-Jun-22	304	15-Dec-21 A	22-Dec-22		L4 (Watermain	& UU) - Constuct watermain & UU CH200 to CH
Road Formation	n									
L4-4410	L4 (road) - Kerb laying	98	19-Feb-22	20-Jun-22	251	19-Feb-22 A	20-Dec-22		L4 (road) - Kerb la	ving
L4-4420	L4 (road) - Paving, cycle track, marking, signage, lighting	85	15-Mar-22	28-Jun-22	238	15-Mar-22 A	29-Dec-22			4 (road) - Paving, cycle track, marking, signage,
Road Works L5.	L1 east (between Junction L3 & L5)									();;;;;
	art 2 (L5 toward PC system B)									
RL1b-1040	Road L1 east 2 - ducting for Street Lighting	738	19-Dec-19	18-Jun-22	891	19-Dec-19 A	19-Dec-22		Road L1 east 2 - du	ting for Stroot Lighting
RL1b-1050	Road L1 east 2 - Road Pavement	645	17-Apr-20	18-Jun-22	798	17-Apr-20 A	19-Dec-22		Road L1 east 2 - Ro	
									Road L1 east 2 - Ro	
RL1b-1060	Road L1 east 2 - Landscape funiture	635	13-Jun-20	02-Aug-22	787	13-Jun-20 A	04-Feb-23			
	art 3 (Junction L3 toward L5)									
RL1c-1060	Road L1 east 2 - Landscape funiture	635	13-Jun-20	02-Aug-22	787	13-Jun-20 A	04-Feb-23			
Works for USR1	r									
USRT10030	Cable laying (by CLP)	14	16-Jun-22	02-Jul-22	14	16-Dec-22	03-Jan-23			Cable laying (by CLP)
USRT10050	T&C & Statutory inspection	25	04-Jul-22	01-Aug-22	25	04-Jan-23	04-Feb-23			
Road Works										
RL1-2050	Road furniture (L1 junction L3)	27	03-Oct-22	03-Nov-22	285	10-Jan-22 A	22-Dec-22		Road furniture	(L1 junction L3)
RL1-2090	Footpath & cycle track (Road L2 & L3)	52	01-Sep-22	03-Nov-22	302	30-Dec-21 A	04-Jan-23			Footpath & cycle track (Road L2 & L3
RL1-2110	Road furniture (Road L2 & L3)	25	04-Nov-22	02-Dec-22	302	17-Jan-22 A	20-Jan-23			Road f
RL1-2130	Lay power cable (L1 West Comer) (by CLP)	77	15-Apr-22	20-Jul-22	230	15-Apr-22 A	20-Jan-23			Lay po
RL1-2150	Lay gasmain (L1 West Corner) (by Towngas)	77	15-Apr-22	20-Jul-22	230	15-Apr-22 A	20-Jan-23			Lay ga
RL1-2170	Carriageway works (L1 West Corner)	50	21-Jul-22	17-Sep-22	322	30-Dec-21 A	31-Jan-23			1
RL1-2190	Footpath & cycle track (L1 West Corner)	50	19-Aug-22	19-Oct-22	303	30-Dec-21 A	05-Jan-23		_	Footpath & cycle track (L1 West Co
RL1-2210	Road furniture (L1 West Corner)	27	20-Oct-22	19-Nov-22	272	21-Feb-22 A	17-Jan-23			Road fumitu
RL1c-1140	Road L1 west 1 - Landscape funiture	333	21-Jun-21	02-Aug-22	66	15-Nov-22 A	04-Feb-23			
RL3-2050	Road furniture (Road L3)	25	04-Nov-22	02-Dec-22	116	15-Sep-22 A	04-Feb-23			1
RL4-2050	Road furniture (Road L4)	25	04-Nov-22	02-Dec-22	51	05-Nov-22 A	05-Jan-23			Road furniture (Road L4)
Hiking Trail Conr	necting to Wison Trail (Portion B5)									
	orks at Hiking Trail									
HIK10130	(NOC215) Delay due to Design review on Hiking Trail	306	06-Jul-21	15-Jul-22	459	06-Jul-21 A	16-Jan-23			(NOC215) Dela
HIK10150	Resume work - Construction of Dwarf Walls for Hiking Trail (SP001 to SP001A)	78	16-Jul-22	18-Oct-22	103	19-Sep-22 A	20-Jan-23			Resum
HIK10170	Construction of Hiking Trail (SP001A to SP011) with Guard Railing and Feature Finish	78	19-Oct-22	19-Jan-23	107	17-Oct-22 A	23-Feb-23			- Nesuli
HIK10170	Construction of reliking Trail (SP001 to SP001) with Guard Railing and reactine Finish	90	20-Jan-23	13-May-23	90	24-Feb-23	15-Jun-23			
HIK10250	Slope works at Portion B5	420	14-Jun-21	09-Nov-22	506	14-Jun-21 A	23-Feb-23			

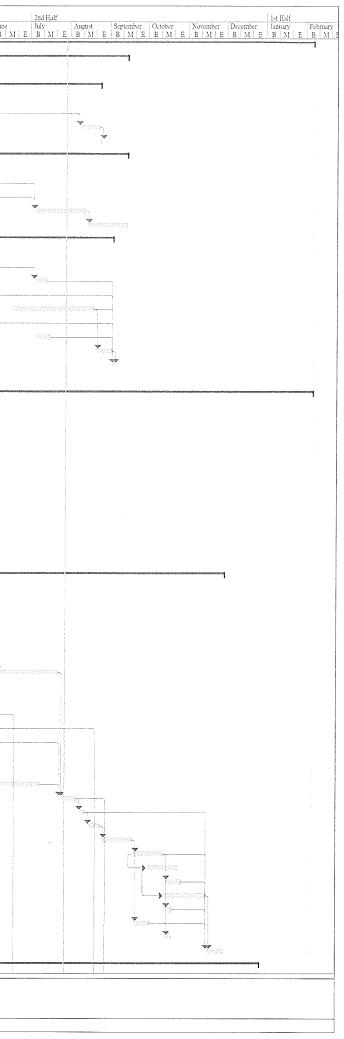
Planned Bar (WP) Actual Bar Milestone	ilestone (WP)	3-month Rolling Programme	Date 15-Dec-22	C1-MPU202212	_
Forecast Bar		Anderson Rd Sub-programme 15-Dec-22			





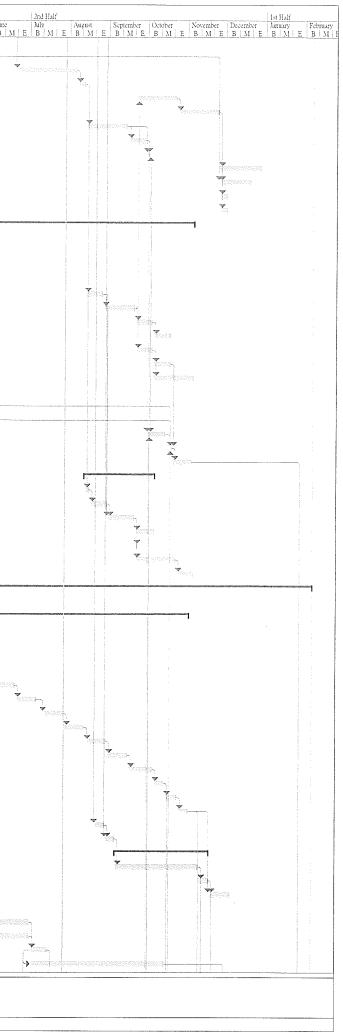
Contract 2 (NE/2016/05)

	isk Name	Duration	Start	Finish	Predecessors	Successors	
							$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
	E/2016/05	457 days	Tue 3/8/21	Mon 6/2/23			
2	Portion 1	333 days		Wed 14/9/22			
3	E1 Escalator	84 days	Tue 3/8/21	Thu 11/11/21			
110	Landscaping on Slope U-Channel	297 days		Wed 24/8/22			
112	Hydroseeding	7 days 7 days	Tue 24/8/21 Wed 1/9/21	Tue 31/8/21	111	112	
113	Planting	7 days 14 days	Mon 8/8/22	Wed 8/9/21 Tue 23/8/22	111 112	113 114	
114	Handover of Slope	1 day	Wed 24/8/22	Wed 24/8/22		114	
115	Construction of LCSD Rest Garden	233 days					
116	XP & TTA Obtainment	28 days	Wed 1/12/21	Wed 5/1/22		117	
117	Remove Ext. Planter Wall	14 days	Thu 6/1/22	Fri 21/1/22	116	118,119	
118	Remove Ext. Tree	12 days	Sat 22/1/22	Tue 8/2/22	117	119	
119 120	Construction of Pavement	35 days	Mon 4/7/22	Fri 12/8/22	118,117	120	
120	Construction of Pavilon, Bench	28 days	Sat 13/8/22	Wed 14/9/22	119		
122	Construction of Sau Mau Ping Memorial Park Submission for Pole Light, Pavilion, Bench	309 days		Sat 3/9/22		122	
123	Procurement of Pole Light, Pavilion, Bench	15 days 30 days	Fri 20/8/21 Tue 7/9/21	Mon 6/9/21 Wed 13/10/21	177	123	
124	Construction of Pavilon	10 days	Mon 4/7/22	Thu 14/7/22	122	124,125 130	
125	Construction of Pole Light with Cabling	10 days 10 days	Fri 15/10/21	Tue 26/10/21	123	130	
126	Construction of Pavement	56 days	Wed 15/6/22	Fri 19/8/22	120	130,129	
127	Construction of Irrigation System	28 days	Fri 20/8/21	Tue 21/9/21		130	196010232300
128	Construction of Railing	12 days	Mon 4/7/22	Sat 16/7/22		130	
129	Planting	12 days	Sat 20/8/22	Fri 2/9/22	126	130	
130	Handover to LCSD	1 day	Sat 3/9/22	Sat 3/9/22	124,125,126,128,129,127	,	
131							
132	Portion 2 E3-PC2 Pile Cap, Column and Pier	439 days		Mon 6/2/23			
134	Concrete Capping Works	175 days	• •	Sat 2/4/22		407	
135	Temporary Working Platform for Piling	6 days 12 days	Wed 8/9/21 Wed 1/9/21	Tue 14/9/21 Tue 14/9/21		137 137	
136	Risk Assessment for Existing RC Canopy at Fu Wah Court	12 days 12 days	Fri 24/9/21	Fri 8/10/21		137,174	
137	Piling Works	40 days	Sat 9/10/21	Thu 25/11/21	135,134,136	138,153,154	
138	Anchor Plate for Pile Heads incl. Testing	6 days	Fri 26/11/21	Thu 2/12/21	137	139	, v
139	Construction of Blindng Layer	2 days	Fri 3/12/21	Sat 4/12/21	138	140	
140	Constructiono of Pile Cap	10 days	Mon 6/12/21	Thu 16/12/21	139	141	
141	Construction of Column	12 days	Tue 18/1/22	Mon 31/1/22	140	142	
142	Construction of Pier Head and Corbal	22 days	Fri 4/2/22	Tue 1/3/22	141	143,144	
143	Concrete Curing for Pier Head	28 days	Wed 2/3/22	Sat 2/4/22	142	153	
144 145	Bearing Installation at Corbal	3 days	Wed 2/3/22	Fri 4/3/22	142	153	
146	E3-FB1 Bridge		Tue 24/8/21	Tue 29/11/22			
147	Design Submission of Temporary Support at E3-Abt Design Submission Approval of Temporary Support at E3-Abt	1 day	Tue 24/8/21	Tue 24/8/21	446	153,147,154	
148	Shop Drawing Submission of E3-FB1	28 days 1 day	Fri 27/8/21	Tue 28/12/21 Fri 27/8/21	146	150	
149	Shop Drawing Approval of E3-FB1	28 days		Mon 31/1/22	148	153,149,154 151,152	
150	Procurement of Material for Temp. Support	12 days	Wed 29/12/21 Wed 29/12/21		148	153,154	
151	Procurement / fabribation for E3-FB1 (1st - 3rd Session)	50 days	Fri 4/2/22	Sat 2/4/22	149	155,156,157	
152	Procurement / fabribation for E3-FB1 (4th Session)	40 days	Tue 7/6/22	Sat 23/7/22	149	161	
153	Erect Temp. Support at E3-Abt (For 1st Session, E3-FB1)	6 days	Mon 4/4/22	Mon 11/4/22	146,148,150,137,143,144	155	
154	Bearing Installation at E3-Abt	3 days	Tue 15/3/22	Thu 17/3/22	146,148,150,137	155	×
155	Lifting & Install E3-FB1 - 1st Session (from E3-Abt)	6 days	Sat 7/5/22	Sat 14/5/22	151,153,154	156,157,176	· · · · ·
156	Lifting & Install E3-FB1 - 2nd Session (from E3-P1)	6 days	Mon 16/5/22	Sat 21/5/22	155,151	234,157	
157 158	Lifting & Install E3-FB1 - 3rd Session (Connect 1st & 2nd Session)	6 days	Mon 23/5/22	Sat 28/5/22	155,156,151	161	
158	Fabribation & Delivery of Temp Steel Platform in Mainland	6 days	Sat 30/4/22	Sat 7/5/22	150	159	
160	Fabribation & Delivery of Temp Steel Platform in HK Install Temporary Steel Platform for E3-LT1 to E3-P1	12 days	Tue 10/5/22	Mon 23/5/22	158	160	*ups:::
161	Lifting & Install E3-FB1 - 4th Session (E3-LT1 to E3-P1	28 days	Tue 7/6/22 Mon 25/7/22	Sat 9/7/22	159	161	
162	Erection of Scaffolding	12 days 6 days	Mon 8/8/22	Sat 6/8/22 Sat 13/8/22	157,152,160 161	235,162 163,172	
163	Concreting Bridge Deck	10 days	Mon 15/8/22	Thu 25/8/22	162	163,172	
164	Construction of RC Planters	21 days	Fri 26/8/22	Mon 19/9/22	163	170,165	
.65	Installation of Corrugated Roof Panel & Gutter	21 days	Tue 20/9/22	Thu 13/10/22	164	169,171,172,167,166SS+10 day	
66	Floor Tiling	21 days	Sat 1/10/22	Tue 25/10/22	165SS+10 days	168SS+11 days	
67	Installation of GRP Feature	12 days	Fri 14/10/22	Thu 27/10/22	165	172	
68	Installation of E&M Works incl. Lighting, Power Cable (From E3 Pillar	28 days	Fri 14/10/22	Tue 15/11/22	166SS+11 days	172	
69 70	Installation of Downpipe	6 days	Fri 14/10/22	Thu 20/10/22	165	172	
70 71	Installation of Irrigation System	12 days	Tue 20/9/22	Mon 3/10/22	164	172	
72	Fall Arrest System	6 days	Fri 14/10/22	Thu 20/10/22	165		
73	Dismantling of Scaffolding & Temporary Support to E3-FB1 Covered Walkway, Sump Pit, E2 Pillar Box	12 days	Wed 16/11/22		165,167,168,169,170,162		
1		500 uays	Sat 9/10/21	Tue 27/12/22			
	Z201605_Programme_20 Split	1		e Milestone	Duration-only	B-the	E External Milestone 🗇 Critical Split
miant. M	201605 Programme 20 Split	1	j Inactiv	e Summary	Manual Summary	Rollup Finish-only	Deadline 4 Progress
oject: N	Milestone Inactive Task		Manua	d Task 🛛 👘	Manual Summary	External Task	ks Critical Manual Progress

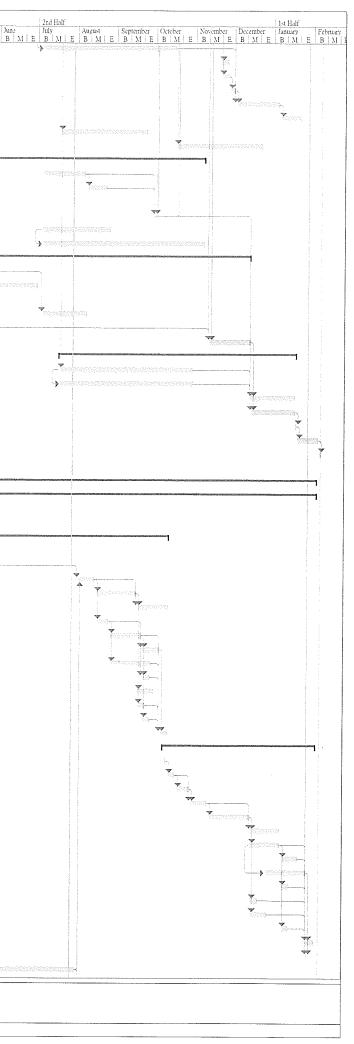


ID I	ask Name	Duration	Start	Finish	Predecessors	Successors	
							Ist Half August September October November December January February March April May June
174	Excavation of Sump Pit	69 days	Sat 9/10/21	Fri 31/12/21	136	175	
175	Construction of Sump Pit	28 days	Mon 3/1/22	Mon 7/2/22	174	184	Lasted office of
176	Construction of Footing of Covered Walkway	40 days	Mon 20/6/22	Fri 5/8/22	155	177	
177	Backfilling and Compaction Test	6 days	Sat 6/8/22	Fri 12/8/22	176	192,206,180	
178	Installation of Steel Frame (Covered Walkway)	28 days	Wed 21/9/22	Sat 22/10/22	193	179	
179	Installation of Roofing (Covered Walkway)	28 days	Mon 24/10/22	2 Thu 24/11/22	178	183,185,186,184	
180	Construction of E2 Pillar Box (Civil)	28 days	Sat 13/8/22	Wed 14/9/22	177	181,182	
181	Construction of E2 Pillar Box (E&M)	12 days	Thu 15/9/22	Wed 28/9/22	180	182,257	
182	E2 Pillar Energized from E3 Pillar	1 day	Fri 30/9/22	Fri 30/9/22	257,180,181	202	
183	Construction of Pavement	28 days	Fri 25/11/22	Tue 27/12/22			
184	Installation of E&M Works (Pump & Lighting)	21 days	Fri 25/11/22	Mon 19/12/22			
185	Installation of Irrigation Pipe	6 days	Fri 25/11/22	Thu 1/12/22	179		
186	Fall Arrest System	6 days	Fri 25/11/22	Thu 1/12/22	179		
187	E2 Lift Tower	342 days		Sat 5/11/22	175		
188	Scaffolding Modification	6 days	Tue 14/9/21	Mon 20/9/21		189,190,191	
189	Window and Louvre Installation	28 days	Tue 21/9/21	Tue 26/10/21	188	189,190,191	
190	Tiling Works on Wall	28 days 28 days	Fri 15/10/21	Tue 16/11/21	188	199	
191	Waterproofing Works	-					
192	Erect Falseworks for E2-LT1 RC Decking at +66.3mPD	5 days	Fri 15/10/21	Wed 20/10/21			
193		12 days	Sat 13/8/22	Fri 26/8/22	177	193,208	
194	Construction of E2-LT1 RC Decking at +66.3mPD	21 days	Sat 27/8/22	Tue 20/9/22	192	196,178,194	
195	Erect Falseworks for E2-LT1 Staircase Landing at +62.85mPD	12 days	Wed 21/9/22	Tue 4/10/22	193	195	
196	Construction of E2-LT1 Staircase Landing at +62.85mPD	12 days	Wed 5/10/22	Tue 18/10/22	194		
197	Installation of Steel Frame (E2-LT1 Canopy)	12 days	Wed 21/9/22	Tue 4/10/22	193	197,198	
197	Installation of Railing	12 days	Wed 5/10/22	Tue 18/10/22	196	203	
	Tiling Works	28 days	Wed 5/10/22	Sat 5/11/22	196		
199	E&M Works	28 days	Wed 27/10/21	Sat 27/11/21	189	200,201	
200	Cabling for Permanent Power	12 days	Mon 29/11/21	Sat 11/12/21	199	203	
201	Lift Installation	85 days	Fri 28/1/22	Tue 17/5/22	199	203,202	. Antipatient antipatient antipatient antipatient antipatient antipatient antipatient antipatient antipatient a
202	Lift T&C	12 days	Sat 1/10/22	Fri 14/10/22	201,257,182	203	
203	LE5 Submission to EMSD	1 day	Wed 19/10/22	Wed 19/10/22	201,200,197,257,202	204	
204	Use Permit for E2-LT1	14 days	Thu 20/10/22	Fri 4/11/22	203	310	
205	E2-PC2 Pile Cap	47 days	Sat 13/8/22	Thu 6/10/22			
206	Excavation for Column Construction	3 days	Sat 13/8/22	Tue 16/8/22	177	207	
207	Construction of Column	12 days	Wed 17/8/22	Tue 30/8/22	206	208	
208	Construction of Pier Head and Corbal	18 days	Wed 31/8/22	Tue 20/9/22	207,192	211,209,210	
209	Concrete Curing for Pier Head and Corbal	14 days	Wed 21/9/22	Thu 6/10/22	208		
210	Bearing Installation	3 days	Wed 21/9/22	Fri 23/9/22	208		
211	Drainage	28 days	Wed 21/9/22	Sat 22/10/22	208	212	
212	Reinstatment	12 days	Mon 24/10/22		200	212	
213	E3-LT1 Lift TowerPortion 2		Tue 31/8/21	Mon 6/2/23	211		
214	E3-LT1 Lift tower structure	57 days	Tue 31/8/21	Mon 8/11/21			
219	E3-ST1 Staircase (landing & stairs)	-	Fri 4/3/22	Wed 2/11/22			
220	1st pour (+25.0 - +28.6mPD)	7 days	Fri 4/3/22		210	224	
221	2nd pour (+28.6 - +32.2mPD)	10 days	Thu 14/4/22	Fri 11/3/22 Thu 28/4/22	218	221	
222	3rd pour (+32.2 - +35.8mPD)		Fri 29/4/22		220	222	
223	4th pour (+35.8 - +38.8mPD)	14 days		Tue 17/5/22	221	223	
224	5th pour (+38.8 - +41.8mPD)	14 days	Wed 18/5/22	Thu 2/6/22	222	224	
225		14 days	Sat 4/6/22	Mon 20/6/22	223	225	
226	6th pour (+41.8 - +45.4mPD)		Tue 21/6/22	Thu 7/7/22	224	226	
220	7th pour (+45.4 - +49.0mPD)	14 days	Wed 13/7/22	Thu 28/7/22	225	227	
227	8th pour (+49.0 - +52.6mPD)	14 days	Fri 29/7/22	Sat 13/8/22	226	228	
228	9th pour (+52.6 - +56.2mPD)	14 days	Mon 15/8/22	Tue 30/8/22	227	229	
	10th pour (+56.2 - +59.7mPD)	15 days	Wed 31/8/22	Fri 16/9/22	228	230	
230	11th pour (+59.7 - +63.3mPD)	16 days	Sat 17/9/22	Wed 5/10/22	229	231	
231	12th pour (+63.3mPD)	8 days	Thu 6/10/22	Fri 14/10/22	230	232,252	
232	13th pour (+66.5mPD)	8 days	Sat 15/10/22	Mon 24/10/22	231	233	
233	14th pour (+70.45mPD)	8 days	Tue 25/10/22	Wed 2/11/22	232	266,239	
234	Erection of small crane at roof	7 days	Mon 22/8/22	Mon 29/8/22	156	235	
235	Removal of tower crane & footing	7 days	Tue 30/8/22	Tue 6/9/22	234,161	237	
236	Reinstatement works for tower crane slab		Wed 7/9/22	Fri 18/11/22			
237	Slab Opening Reinstatement		Wed 7/9/22	Thu 10/11/22	235	238,266	
238	Parapet Wall (Remaining)		Fri 11/11/22	Fri 18/11/22	237	246,247,239	
239	Removal of small crane		Sat 19/11/22	Mon 5/12/22	238,233	, ,	
240	Steel truss - welding works & welding test		Thu 23/9/21	Sun 31/10/21		241,242	
241	Window installation		Tue 10/5/22	Sat 2/7/22	240	243	
242	Louvre installation		Tue 10/5/22	Sat 2/7/22	240	243	
243	Water tightness test for E3-LT1 louvre / windows		Mon 4/7/22	Sat 2/7/22 Sat 16/7/22	241,242	245 244SS,245SS,251,268	
244	Tiles (Wall/Staircase/Floor)		Mon 4/7/22 Mon 4/7/22	Sat 16/7/22 Sat 15/10/22	243SS	24455,24555,251,268 249	
		20 0043		Juc 1J/ 10/ 22		۲ ۰۰ J	
D -	Task Summary	P		e Milestone	Duration-only	Start-or	
Project: NI	201605_Programme_20 Split			e Summary		ary Rollup Finish-	
	Milestone Inactive Task	X	Manua	l Task 🛛 🔤	Manual Summ	ary I Externa	al Tasks Critical Manual Progress
							Page 2

Page 2



ID	Task Name	(D		T2:	·	12	
		Duration	Start	Finish	Predecessors	Successors	August Septemicer October November December famury February March April May Jun.
245	Paint	90 days	Mon 4/7/22	Sat 15/10/22	24266	240	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
246	Fall Arrest System (Roof)	90 days 6 days	Mon 4/7/22 Sat 19/11/22	Sat 15/10/22		249	
247	Waterproof (Roof)	6 days	Sat 19/11/22 Sat 19/11/22	Fri 25/11/22 Fri 25/11/22	238 238	240	
248	Water tightness test for E3-LT1 roof	4 days	Sat 15/11/22 Sat 26/11/22	Wed 30/11/22		248 249	
249	Dismantle of scaffolding working platform	30 days	Thu 1/12/22	Wed 30/11/22 Wed 4/1/23	248,244,245	249	
250	Glass canopy at G/F	15 days	Thu 5/1/23	Sat 21/1/23	248,244,243	250	
251	Install inclined plate at the recess of Windows & Louvres	59 days	Mon 18/7/22	Fri 23/9/22	243		
252	Railing (GMS) on staircase	59 days	Sat 15/10/22	Thu 22/12/22			
253	E&M works	317 days		Mon 7/11/22			
254	Excavation and Laying Cable by CLP (Next to HD Site)	30 days	Mon 4/7/22	Sat 6/8/22		255,257	
255	Excavation by KO and Laying Cable by CLP (Outside E3-LT1)	14 days	Mon 8/8/22	Tue 23/8/22	254	257	
256	E3 Pillar Box (Civil)	65 days	Mon 18/10/21		234	263	
257	E3 Pillar Energized by CLP	1 day	Thu 29/9/22	Thu 29/9/22	181,254,255	270,203,202,182,271	
258	Telemetry Duct	47 days	Mon 4/7/22	Fri 26/8/22	101/201/201	259SS	
259	Drainage Manhole	109 days		Mon 7/11/22	25855	22223	
260	Electrical installation	329 days		Tue 13/12/22			
261	Lift Shafts	90 days	Tue 9/11/21	Mon 28/2/22		264	
262	Sump Pit (E&M)	30 days	Thu 26/5/22	Thu 30/6/22	210	204	
263	Pillar Box (E&M)	82 days	Wed 5/1/22	Thu 14/4/22	256		
264	Lighting	31 days	Mon 4/7/22	Mon 8/8/22	250		
265	Machine room (Above Lift Shaft)	28 days	Mon 25/4/22	Sat 28/5/22	201	266	
266	Machine room (Above E3-ST1 Staircase & Tower Crane)	28 days	Fri 11/11/22	Tue 13/12/22	237 265 233	271,270	
267	Lift installation	159 days		Wed 18/1/23	257,205,255	2/1,2/0	
268	Lift Car Installation	90 days	Mon 18/7/22	Sat 29/10/22	243	269SS,270,271	
269	Door frames / Misc.	90 days	Mon 18/7/22	Sat 29/10/22	26855	270,271	
270	Self test	30 days	Wed 14/12/22		257,268,269,266	270,271	
271	T&C	30 days	Wed 14/12/22		266,257,268,269	272	
272	Submit LE5 to EMSD	1 day	Wed 18/1/23	Wed 18/1/23	271	272	
273	Pre-handing over inspection (E3-LT1 & E3-FB1) by HyD/Structure	15 days	Thu 19/1/23	Sat 4/2/23	272	273	
274	Ready to open Lift Tower E3-LT1 / Footbridge E3-FB1 to public	1 day	Mon 6/2/23	Mon 6/2/23	272	274	
275		r uuy	101011 07 27 23	MON 0/2/23	275		
276	Portion 3	414 days	Mon 20/9/21	Fri 3/2/23			
277	E2-FB1 Bridge	414 days	Mon 20/9/21 Mon 20/9/21	Fri 3/2/23			
278	Shop Drawing Approval of E3-FB1	7 days	Mon 20/9/21	Tue 28/9/21		279	
279	Procurement of Material for E3-FB1	45 days	Mon 4/10/21	Thu 25/11/21	278	281	
280	E2-FB1 - 1st Span (Housing Lift Tower to E2-P2)	215 days	Fri 21/1/22	Tue 11/10/22	278	281	
281	Bridge Erection (Only allow on Sat to Sun / Public Holiday)	2 days	Fri 21/1/22	Sun 23/1/22	279	282	
282	Remaining Steelworks before Bridge Deck Casting	6 days	Mon 24/1/22	Sat 29/1/22	281	282	
283	Concreting Bridge Deck	12 days	Tue 2/8/22	Mon 15/8/22	282,311		1
284	Construction of RC Planter	28 days	Tue 16/8/22	Fri 16/9/22	282,311	284,286,285 292,291,285	
285	Floor Tiling	20 days 21 days	Sat 17/9/22	Tue 11/10/22	283,284	292,291,285	
286	Erection of Scaffolding	10 days	Tue 16/8/22	Fri 26/8/22	283	287,288,289,290	
287	Installation of Corrugated Roof Panel & Gutter	21 days	Sat 27/8/22	Tue 20/9/22	285	290,293,294,288	
288	Installation of GRP Feature	12 days	Wed 21/9/22	Tue 4/10/22	286,287	290,295,294,288	
289	Installation of E&M Works incl. Unistruct & Lighting	28 days	Sat 27/8/22	Wed 28/9/22	286,287	294	
290	Installation of Downpipe	6 days	Wed 21/9/22	Tue 27/9/22	287,286	294	
291	Installation of Railing	12 days	Sat 17/9/22	Fri 30/9/22	287,288	294	
292	Installation of Irrigation System	6 days	Sat 17/9/22 Sat 17/9/22	Fri 23/9/22	284	294	
293	Fall Arrest System	6 days	Wed 21/9/22	Tue 27/9/22	284		
294	Dismantling of Scaffolding	6 days	Wed 5/10/22	Tue 11/10/22	288,289,290,292,287,293	294	
295	E2-FB1 - 2nd Span (E2-P2 to E2-LT1)	102 days	Sat 8/10/22	Fri 3/2/23	200,209,290,292,207,295		
296	Bridge Lifting (Only allow on Sat to Sun / Public Holiday)	2 days	Sat 8/10/22	Mon 10/10/22		297	
297	Remaining Steelworks before Bridge Deck Casting	6 days	Tue 11/10/22	Mon 17/10/22	206		
298	Erection of Scaffolding	10 days	Tue 11/10/22 Tue 18/10/22	Fri 28/10/22	296	299,298 299	
299	Concreting Bridge Deck	12 days	Sat 29/10/22	Fri 11/11/22			
300	Construction of RC Planter	28 days	Sat 23/10/22 Sat 12/11/22		297,298	300,301	
301	Floor Tiling	28 days 21 days		Wed 14/12/22 Sat 7/1/23		306,307,301,302	
302	Installation of Corrugated Roof Panel & Gutter	21 days 21 days	Thu 15/12/22 Thu 15/12/22	Sat 7/1/23 Sat 7/1/23	299,300 300	200 205 202 200 20 55 55	
303	Installation of GRP Feature	12 days		Sat 7/1/25		308,305,303,309,304SS+10 day	
304	Installation of E&M Works incl. Unistruct & Lighting				302 30355 - 10 dava	309	
305	Installation of Downpipe	28 days 6 days		Fri 27/1/23 Sat 14/1/23	302SS+10 days	309,310	
306	Installation of Irrigation System	6 days			302	309	
307	Installation of Railing	-		Wed 21/12/22		309	
308	Fall Arrest System	12 days 6 days		Wed 28/12/22		310	
309	Dismantling of Scaffolding	6 days 6 days		Sat 14/1/23	302	309	
310	Ready to open Lift Tower E2-LT1 & E2-FB1-	6 days 1 day	Sat 28/1/23 Sat 28/1/23	Fri 3/2/23	303,304,305,306,308,302		
311	Underground Drainage	1 day 60 days		Sat 28/1/23	307,304,204	212 202	
		oo uays	Sat 21/5/22	Mon 1/8/22		312,283	
	Task Summary	r		e Milestone	Duration-only	Start-only	E External Milestone 🔿 Critical Split
Project: N	E201605_Programme_20 Split	у 1		e Summary	Manual Summary		Deadline I Progress
			Manual	i i asx i	I Manual Summary	External Task	ks Critical Manual Progress
٤						Pa	age 3



ID Task Name	Duration Start	Finish I	Predecessors Successors	Ausust September Outsber November December Lanuary February March	2nd Half Arel May Just August Sentember Outsbur	lst Half November December Linux
312 Road Surface Reinstatement	28 days Tue 2/8/22	Fri 2/9/22	311	August September October November December January February March E B M E B <	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c} B & M & E \\ \hline \end{array} \begin{array}{c} B & M \\ \hline \end{array} \end{array} \begin{array}{c} B & M \\ \hline \end{array} \begin{array}{c} B & M \\ \hline \end{array} \end{array} $

	Task		Summary		Inactive Milestone	Duration-only	. Newsenstationalise	Start-only	C	External Milestone	2	Critical Split	the contract see
roject: NE201605_Programme_20	Split	************	Project Summary	1 1	Inactive Summary	Manual Summary Rollup		Finish-only	С	Deadline	÷	Progress	Contraction of the Association o
	Milestone	\$	Inactive Task		Manual Task	Manual Summary		External Tasks		Critical		Manual Progress	

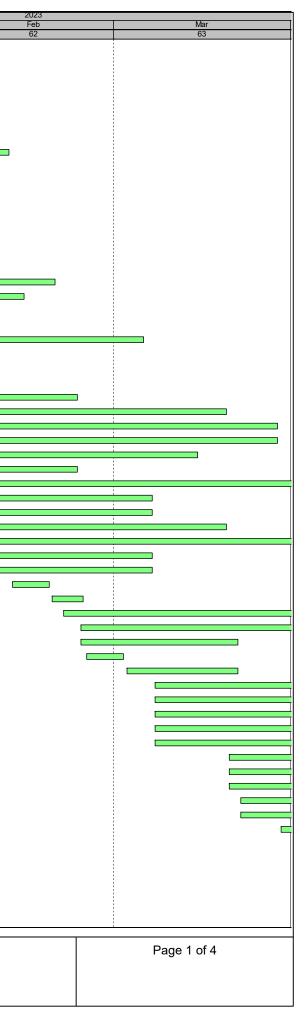


Contract 3 (NE/2017/03)

	Activity Name	Duration	Start	Finish	2022 Dec	Jan	—
E2017/03 - ARQ PHASE 24	A - Monthly Programme Update (202212)-0 221222	2059	04-Nov-20 A	30-Aug-25	60	61	
Road Improvement Works		1023	04-Nov-20 A	20-Apr-24			
Construction Works		1023	04-Nov-20 A	20-Apr-24			
CON10650	Construct RW wall (RWC2 type 1a & 1 [Bay 2 to Bay 1])	225	04-Nov-20 A	28-Nov-22			
CON10050	Drainage & utilities works (RWC2 type 14 & 1 [bay 2 to bay 1])	60	21-Jun-21 A	22-Sep-23	_		
CON12130	Road works (RWC2 type 4, 6, 7, 8)	60	26-Jul-21 A	31-Oct-23	_		
CON12134	Install stone facing for wall (RWC2 type 4, 6, 7, 8)	72	02-Aug-21 A	19-Dec-23	_		
CON10750	Construct socket H-pile works (RWC2 type 4; 0, 7; 0)	300	13-Oct-21 A	10-Feb-23	-		
CON11328C	CSD reviewing at CT5	252	18-Jan-22 A	04-Feb-23	-		
CON11550A	Gas Main Diversion Works (by Towngas)	29	11-Aug-22 A	03-Dec-22	-		
CON10231E	(CE358) Watermain diversion due to unforeseen ground condition (by WSD 8	30	17-Aug-22 A	30-Nov-22	-		
CON10271	Further ELS to RWC2 type 5 due to unforeseen ground utilities	54	31-Aug-22 A	14-Jan-23	_		
CON12690	Modification existing TTA, Site formation works, construct temporaty road, pre-c	96	08-Oct-22 A	03-Feb-23	- -		
CON12390	ELS works & construct subway footing (KS27 east side)	54	03-Nov-22 A	07-Jan-23			
CON10268B	(NCE164) Grouting for remedial works at abutment of Lee On Rd Flyover	19	11-Nov-22 A	02-Dec-22			
CON12476	Connect to existing manhole	14	14-Nov-22 A	29-Nov-22			
CON10752	Install sheet pile & ELS to RW pile cap (RWC2 type 3, stage 1)	72	21-Nov-22	18-Feb-23			
CON10652	Construct RW footing (RWC2 type 2)	60	28-Nov-22	13-Feb-23			
CON10330	upgrading works at Feature No. 11NEA/F60 (by pip-by-pit method) - Stage 2	48	01-Dec-22	01-Feb-23			-
CON10240	Existing sewage drainage pipe diversion (lower stream)	28	01-Dec-22	05-Jan-23			
CON10654	Construct RW wall (RWC2 type 2)	60	19-Dec-22	06-Mar-23			
CON11554	ELS works for pile cap construction (FE1-PC1b, 32m, 1m/d)	36	21-Dec-22	07-Feb-23			
CON115561	Existing storm drain near FE1- F6b & FE1-F7b diversion (stage 1)	30	21-Dec-22	31-Jan-23			
CON115563	Existing sewage drain near FE1- F6b & FE1-F7b diversion (stage 1)	30	21-Dec-22	31-Jan-23	_		
CON10350	upgrading works at Feature No. 11NEA/F60 (by pip-by-pit method) - Stage 3	48	22-Dec-22	22-Feb-23			
CON10274	Cut slope works (RWC2 type 4 Bay 45 to Bay 38)	60	06-Jan-23	20-Mar-23	_		
CON12450	Construct lift shaft (KS27 east side)	66	09-Jan-23	29-Mar-23	_		
CON12430	Construct subway wall and soffit (KS27 east side)	66	09-Jan-23	29-Mar-23	_		
CON10450	upgrading works at Feature No. 11NEA/F60 (by pip-by-pit method) - Stage 4	48	16-Jan-23	15-Mar-23	_		
CON10272	Cut slope works (RWC2 Bay 48 to Bay 47)	30	16-Jan-23	22-Feb-23	_		
CON10670	Slope reinstatement works (RWC2 type 1a, 1, 2)	60	21-Jan-23	06-Apr-23	—		
CON115565	Existing storm drain near FE1- F6b & FE1-F7b diversion (stage 2)	30	01-Feb-23	07-Mar-23	_		
CON115567	Existing sewage drain near FE1- F6b & FE1-F7b diversion (stage 2)	30	01-Feb-23	07-Mar-23	_		
CON11530	Construct piling foundation on CT6 Type 1 (18nos, 2d/no, 1 team) + 2d for 1st	38	04-Feb-23	20-Mar-23	_		
CON11330	Construct CT5 piling foundation (12nos, 6d/no, 1 team + setup)	90	06-Feb-23	27-May-23	-		
CON12330	Construct subway footing (KS27 west side, bay 1)	24	08-Feb-23	07-Mar-23	-		
CON11650	Construct NB RC pile cap (FE1-PC1b, 32m, 1m/d, 1 team)	24	08-Feb-23	07-Mar-23	_		
CON10750A	(NCE201) Inclement weather 21/5/2022 to 20/6/2022 affected to RWC3 sock	6	11-Feb-23	17-Feb-23	_		
CON10750A1	(NCE186) disruption by HyD interface contractor affected to RWC3 socket H v	5	18-Feb-23	23-Feb-23	-		
CON10754	Construct RW pile cap / footing (RWC2 type 3, stage 1)	72	20-Feb-23	19-May-23	-		
CON10390	Construct pile cap (RWC2 type 5 [bay 46])	48	23-Feb-23	24-Apr-23	-		
CON10390	Construct RW footing (RWC2 type 6 [bay 46])	24	23-Feb-23	22-Mar-23	-		
CON10412 CON10750C	(NCE202) Inclement weather (21/6/2022 to 20/7/2022) affected to RWC3 soc	6	23-Feb-23 24-Feb-23	02-Mar-23	-1		
CON10750E	(NCE202) Inclement weather (21/7/2022 to 20/7/2022) affected to RWC3 soc (NCE210) Inclement weather (21/7/2022 to 20/8/2022) affected to RWC3 soc	17	03-Mar-23	22-Mar-23	-1		
CON10730E	Construct NB RC wall (FE1-PC1b, 32m 0.75m/d, 1 team)	30	03-Mar-23	15-Apr-23	-		
CON12350	Construct subway wall and soffit (KS27 west side, bay 1)	36	08-Mar-23	22-Apr-23	-		
CON12350	Construct Subway wai and Soliit (KS27 west side, bay 1) Construct RC lift shaft (KS27 west side)	65	08-Mar-23	22-Api-23	-		
CON12692	Existing storm drain near FE1-F4a & FE1-F5a diversion (stage 3)	30	08-Mar-23	15-Apr-23	-1		
CON12692	Existing storm drain hear FE1-F4a & FE1-F5a diversion (stage 3) Existing sewage drain near FE1-F4a & FE1-F5a diversion (stage 3)	30	08-Mar-23	15-Apr-23	-1		
CON12094 CON11532	Construct piling foundation on CT6 Type 2 (21nos, 2d/no, 1 team)	42	21-Mar-23	13-May-23	-		
CON10432	Construct Plining Ioundation on C to Type 2 (2 mos, 20/10, 1 team) Construct RW footing (RWC2 type 4 [bay 45 to bay 38])	42	21-Mar-23	13-May-23	-		
CON10432 CON10452A	ELS to retaining wall footing (RWC2 type 4 (bay 45 to bay 56))	72	21-Mar-23	19-Jun-23	-		
CON10452A CON10414	Construct RW wall (RWC2 type 6 [bay 48 to bay 47])	24	21-Mar-23 23-Mar-23	24-Apr-23	-1		
CON10750G	(NCE216) Inclement weather (21/8/2022 to 20/9/2022) affected to RWC3 soc	9	23-Mar-23	01-Apr-23	-		
CON12490	At grade works (KS27 east side)	60	30-Mar-23	14-Jun-23	-		
CON12490	(NCE222) Inclement weather (21/9/2022 to 20/10/2022) affected to RWC3 so	4	03-Apr-23	11-Apr-23	-1		
CON107501 CON12170	Drainage & utilities works (RWC2 type 1a, 1, 2)	4 72	05-Apr-23	07-Jul-23	-1		
CON12170 CON10750K	(NCE[TBA]) Inclement weather (21/10/2022 to 20/11/2022) affected to RWC3	5	12-Apr-23	17-Apr-23	-1		
CON10750K CON11570	Utilities works (FE1-PC3b ~ FE1-PC7b)	5 12	12-Api-23 17-Apr-23	29-Apr-23	-		
CON11570	(CE267) Great depth varying encountered on RH level for socket H for on RV	300	17-Apr-23 18-Apr-23	29-Apr-23 20-Apr-24	-		
		536	10-Apr-23	07-Jun-23			
	Location 2 (RIW2)	550	TU-Jan-22 A	07-301-23			1

♦ ♦ Milestone

3-Month Rolling Programme



y ID	Activity Name	Duration	Start	Finish	2022 Dec	Jan	
		440	10 Jac 00 4	06 1402	60	61	Ļ
Construction Works in Slop		446	10-Jan-22 A	06-May-23			
CON20790	Construct RW bay 9 to bay 13 base (L=30m) (due to unforeseen ground conc	66	10-Jan-22 A	10-Dec-22			
CON20810	Construct RW bay 9 to bay 13 wall (L=30m) (due to unforeseen ground condi	138	09-Jun-22 A	13-Feb-23			
CON20170	Fabrication of NB steel post - along slope side	70	01-Feb-23	11-Apr-23			
CON20770	Fill slope at 11NE-B/F56 (Zone 7)	66	14-Feb-23	06-May-23			
CON20810A	(NCE[TBA]) Inclement weather 21/10/2022 to 20/11/2022 at RWC3	5	14-Feb-23	18-Feb-23			
CON20850A	Remaining works for junction at RWC3 C & B	42	20-Feb-23	13-Apr-23			
CON20992A	Reinstate existing utilities works at Portion B (bay 1 to bay 16)	12	20-Feb-23	04-Mar-23			
CON20990	Utilities & drainage works at Portion B (bay 9 to bay 13)	42	06-Mar-23	27-Apr-23			
CON21010	Utilities & drainage works at Portion B (bay 3 to bay 8)	18	06-Mar-23	25-Mar-23			
CON21030	Utilities & drainage works at Portion B (bay 1 to bay 2)	18	27-Mar-23	20-Apr-23			
CON20190	Steel post along slope side delivery	14	12-Apr-23	25-Apr-23			
Construction Noise Semi-E	Inclosure SE2 (Portion C)	379	23-Aug-22 A	07-Jun-23			
CON219671A	(NCE208) Excavation & Install additional sheet pile for exposed 132kV cable p	60	23-Aug-22 A	21-Jan-23			
CON21968	(NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s	200	30-Aug-22 A	03-Jun-23			—
CON21670	Construct 2nos test pile for load test & load test (Bay4 to Bay12, 1 team)	12	11-Nov-22 A	24-Nov-22			
CON21776	ELS works at CT4 (12nos. strut, 0.25no/d, 1 team + setup)	48	19-Nov-22 A	21-Jan-23			
CON21778	Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)	27	26-Jan-23	25-Feb-23	-		<u> </u>
CON21780	Construct NB RC L-shaped wall (CT4 Bay1 to Bay3; L=30m)	42	27-Feb-23	20-Apr-23	-1		
CON21710	Construct NB pile cap (SE2 Bay4 to Bay12; L=110m)	48	16-Mar-23	16-May-23	-		
CON21730	Construct NB RC L-shaped wall (SE2 Bay4 to Bay12; L=110m)	48	11-Apr-23	07-Jun-23	—		
Road Improvement Works		1667	19-Jul-21 A	30-Aug-25			
Construction Works		1667	19-Jul-21 A	30-Aug-25			
	Quitalana uratra (QL144E to QL1000) (I =05 40007 - 0.40, QL1)						
CON31130	Cut slope works (CH115 to CH200) (L=85m, 13007m3, 10m3/d)	1300	19-Jul-21 A	30-Aug-25			
CON30170	Slope works & fill no-fine concrete at slope D1 (Level 1/4, 400m3)	72	19-Aug-21 A	24-Dec-22			
CON30410F	JV prepare pipe pile wall design; ICE review & approval; PM review, comment	266	24-Aug-21 A	10-Dec-22			
CON32412	Construct SE1 bay13 & bay8 (lower-pour) retaining wall	24	05-Nov-21A	10-Dec-22			
CON30392	Backfill RWD1 (bay10 to bay13)	60	12-Apr-22 A	17-Dec-22			
CON32750	(CE497) Construct footing of RWD2 bay8 & bay9	60	13-Sep-22 A	23-Nov-22			
CON31212	Rock slope mapping (Stage 2)	180	03-Oct-22 A	20-May-23			
CON32770	(CE497) Construct wall of RWD2 bay8 & bay9	60	20-Oct-22 A	03-Feb-23			_
CON31170	Soil nail works (11NE-D/F246, stage 2)	150	21-Oct-22 A	25-Apr-23			-
CON31708E	Coordition with UU parties for conformation & removal unchart RC structure	60	24-Oct-22 A	04-Jan-23			
CON31450	Trees felling (Slope D4, CH275 to CH430)	24	05-Nov-22 A	02-Dec-22			
CON30670	Application of TTA/ discussion with WSD for fresh watermain B and salt watern	60	08-Nov-22 A	19-Jan-23			
CON31470	Erect working platform	24	03-Dec-22	03-Jan-23			
CON30412B	Install pipe pile wall (around 32nos. 1d/no.+ setup) (Bay 14b to Bay 16)	36	12-Dec-22	28-Jan-23			
CON32414	(CE[TBA]) Additional rock break due to unforeseen ground condition @ SE1 b	22	12-Dec-22	09-Jan-23			
CON30392A	(NCE201) Inclement weather (21/5/2022 to 20/6/2022) on RIW3 WM	6	19-Dec-22	24-Dec-22			
CON30190	Excavation, find-out rock-head & ELS works (Level 1/4)	126	28-Dec-22	03-Jun-23			÷
CON30392B	(NCE202) Inclement weather (21/6/2022 to 20/7/2022) on RIW3 WM	6	28-Dec-22	04-Jan-23	1 🗖		
CON31490	Install monitoring & instrumentation (Slope D4)	24	04-Jan-23	03-Feb-23	7		<u> </u>
CON31710	Construct footing, pier & pier head F1-4	144	05-Jan-23	04-Jul-23	—		
CON30392C	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on RIW3 WM	17	05-Jan-23	27-Jan-23			
CON32416	Construct type 2 NB footing (SE1 bay7)	8	10-Jan-23	18-Jan-23	-1		
CON32430	Construct SE1 bay7 (lower-pour) retaining wall	12	19-Jan-23	04-Feb-23			
CON31214	PM review & acceptance and slope stabilization measures (Stage 2)	180	20-Jan-23	30-Aug-23	-		
CON30656	Lay twin DN600 watermain at RW RWD1a Bay10 - Bay13 (FW CH290 to CH	20	28-Jan-23	20-Feb-23	—		
CON30394	Backfill RWD1 (bay6 to bay10)	48	28-Jan-23	24-Mar-23	-		
CON30412C	ELS works and shotcrete (Bay 14b to Bay 16)	12	30-Jan-23	11-Feb-23	-		-
CON30412C	Moblization & setup for soil nails works (Slope D4)	12	04-Feb-23	17-Feb-23	-		
			04-Feb-23	24-Mar-23			
CON32790	Drainage & utilities works (RWD2 remaining)	42			_		
CON32436	Backfilling to watermain's level (NB SE1 Bay7 to Bay9)	36	06-Feb-23	18-Mar-23	_		
CON32432	Backfilling to watermain's level (NB SE1 Bay1 to Bay6)	102	06-Feb-23	10-Jun-23	_		
CON30412D	Install UU support (Bay 14b to Bay 16)	6	13-Feb-23	18-Feb-23	_		
CON31530	Cut slope, Construct trial nails (2nos 10m depth, 3.5d/no) (Slope D4)	60	18-Feb-23	04-May-23	_		
CON30412E	Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team)	30	20-Feb-23	25-Mar-23			
CON30490	Drainage & utilities works (bay 8 to bay 14)	42	21-Feb-23	14-Apr-23			
CON30662	Lay twin DN600 watermain at SE1 Bay7 - Bay9 (FW CH140 to CH170)	18	20-Mar-23	13-Apr-23	_		
CON31550	Construct soil nails (55nos 10m depth, 3.5d/no, 3 teams) (Slope D4)	60	25-Mar-23	09-Jun-23			
CON30660	Lay twin DN600 watermain at RW RWD1a Bay6 - Bay10 (FW CH250 to CH2	16	25-Mar-23	17-Apr-23			1

Remaining Work

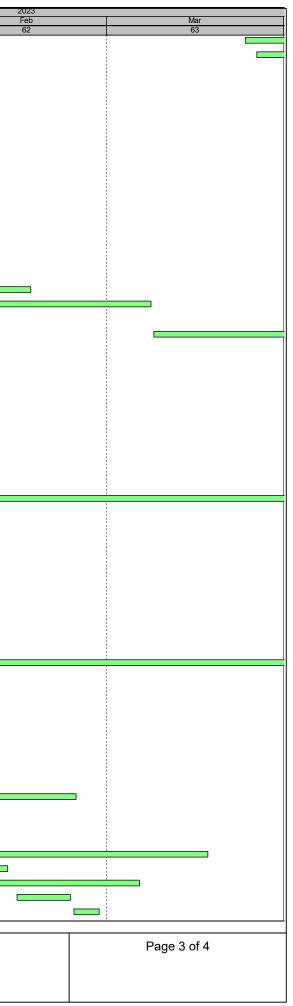
 Milestone ٠

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

3-Month Rolling Programme



ity ID	Activity Name	Duration	Start	Finish	2022
					Dec Jan 60 61
CON32810	Road works (RWD2 remaining)	42	25-Mar-23	18-May-23	
CON30430	Construct pile cap (Bay 14b)	12	27-Mar-23	13-Apr-23	-
CON30430A	Plate load test (Bay 15 to Bay 16)	12	14-Apr-23	27-Apr-23	-
CON30530	Drainage & utilities works (bay 1 to bay 7)	42	15-Apr-23	05-Jun-23	-
CON30510	Road works (bay 8 to bay 14)	42	18-Apr-23	07-Jun-23	-
		823	04-Nov-21A	07-Mar-24	
Pedestrian Connectivity Fac	sility (PC-E11)				
Construction Works		370	04-Nov-21 A	08-Mar-23	
CON42630	Construct covered-walkway between PC-E11 & BBI toilet	102	04-Nov-21 A	19-Dec-22	
CON42632A	PMI[TBA] - Addition duration for trim concrete & existing CI pipe diversion	30	17-Aug-22 A	21-Nov-22	
CON42850	E&M works to PC-E11 @E11-FB1	48	07-Oct-22 A	01-Dec-22	þ
CON42832	E&M works to PC-E11 @LT1 (Other than lift shaft area)	36	07-Oct-22 A	22-Nov-22	-
CON42732	ABWF works @LT1 (Other than lift shaft area)	48	12-Oct-22 A	07-Dec-22	
CON42930	Lifts installation works in E11-LT1	60	17-Oct-22 A	24-Dec-22	
CON42952	T&C to lift E11-LT2	30	21-Oct-22 A	09-Dec-22	
CON42610A	Install fall arrest system on roof of footbridge	20	20-Dec-22	14-Jan-23	
CON42930A	(NCE222) Inclement weather (21/9/2022 to 20/10/2022) on E11	4	28-Dec-22	31-Dec-22	
CON42930B	(NCE[TBA]) Inclement weather (21/10/2022 to 20/11/2022) on E11	5	03-Jan-23	07-Jan-23	
CON42970	T&C to lift E11-LT1	30	09-Jan-23	15-Feb-23	
CON42890	T&C and Statutory Inspection _PC-E11	24	09-Feb-23	08-Mar-23	
Norks Under Section 6A		365	09-Mar-23	07-Mar-24	
CON43030	Establishment Works for Landscape Softworks in Section 6 (Portion E and FII)	365	09-Mar-23	07-Mar-24	
edestrian Connectivity Fac		454	26-Oct-22 A	07-Feb-24	
Construction Works		70	26-Oct-22 A	07-Feb-23	
CON43610	Design review by ArchSD / LCSD	36	26-Oct-22 A	06-Dec-22	
CON43330	Laying of cable ducts for light poles & re-installation of light poles (lower portion	12	11-Nov-22 A	10-Dec-22	
CON43630	Demolish existing planter and re-construct new planter	36	07-Dec-22	20-Jan-23	
CON43650	Lay watermain for new water point	24	07-Dec-22	06-Jan-23	
CON43550	Installation of watermains for Irrigation (lower portion)	12	12-Dec-22	24-Dec-22	
CON43570	(NCE218) Reinstatement of planter wall, U-channel & surface run-off (lower pc	24	28-Dec-22	28-Jan-23	
CON43670	Install new water point	24	07-Jan-23	07-Feb-23	-
Works Under Section 7A		365	08-Feb-23	07-Feb-24	
CON41970	Establishment Works for Landscape Softworks in Section 7 (Portion G)	365	08-Feb-23	07-Feb-24	
		573	09-Jul-22 A	01-Feb-24	
Pedestrian Connectivity Fac	sility System A (SYA)				
Construction Works		169	09-Jul-22 A	01-Feb-23	
CON50496	E&M works (Open area for lift tower & staircase)	120	09-Jul-22 A	23-Dec-22	
CON50430	Lifts installation works in SYA-LT1C & SYA-LT2A	48	06-Sep-22A	26-Nov-22	
CON50410	Lifts installation works in SYA-LT1A & SYA-LT1B	48	06-Sep-22A	26-Nov-22	
CON50350	ABWF works (footbridge)	24	17-Nov-22 A	14-Dec-22	
CON50450	T&C and Statutory Inspection to 4nos lift _SYA	24	03-Dec-22	03-Jan-23	
CON50496A	(NCE[TBA]) Inclement weather (21/10/2022 to 20/11/2022) affected to SYA E8	5	24-Dec-22	31-Dec-22	
CON50530	T&C and Statutory Inspection SYA	22	04-Jan-23	01-Feb-23	
Construction Works in Section		365	02-Feb-23	01-Feb-24	
CON50550	Establishment Works for Landscape Softworks in Section 8 (Portion H and I)	365	02-Feb-23	01-Feb-24	
edestrian Connectivity Fac	ility System B (SYB)	632	21-Jun-21 A	05-Sep-23	
Construction Works		632	21-Jun-21 A	05-Sep-23	
CON52170	Construct superstructure SYB-LT1 (excluding part of support to escalator)	460	21-Jun-21 A	05-Jan-23	
CON53330	PM review & approval design for additional temporary road near PC3	90	16-May-22 A	10-Dec-22	
CON51950	Construct pier SYB-P6 (3 pour) {PC6-L}	52	10-Oct-22 A	08-Dec-22	
CON51990	Construct pier SYB-P1 (1 pour) {PC1}	28	21-Oct-22 A	10-Dec-22	
		17	03-Nov-22A	22-Nov-22	
CON52110A	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on Sys B P3				
CON52530	Construct escalator pit P4 to P7	48	21-Nov-22	18-Jan-23	
CON52150	Construct pier SYB-P5 (5 pour) {PC4-L}	65	03-Dec-22	23-Feb-23	
CON53370	Cut-slope works & installation of temporary soil nail	36	20-Dec-22	06-Feb-23	
0.01/50/504	(NCE201) Inclement weather (21/5/2022 to 20/6/2022) on SYB-LT1	6	06-Jan-23	12-Jan-23	
CON52170A	(NCE202) Inclement weather (21/6/2022 to 20/7/2022) on SYB-LT1	6	13-Jan-23	19-Jan-23	
CON52170A CON52170B	Construct escalator pit P3 to P4	48	19-Jan-23	18-Mar-23	
			20-Jan-23	11-Feb-23	1
CON52170B	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on SYB-LT1	17	20-3411-23		
CON52170B CON52550		17 24	07-Feb-23	06-Mar-23	
CON52170B CON52550 CON52170C CON53390	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on SYB-LT1 Form temporary road	24	07-Feb-23		
CON52170B CON52550 CON52170C	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on SYB-LT1			06-Mar-23 22-Feb-23 27-Feb-23	



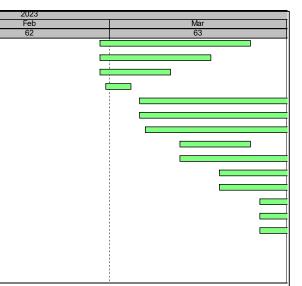
Activity ID	Activity Name	Duration	Start	Finish	2022		
					Dec	Jan	
					60	61	
CON52290	Erect footbridge steel frame PC2 to PC1 (P2 to P1)	24	27-Feb-23	25-Mar-23			
CON52590	Install steel roof (steel frame) P4 to P7	18	27-Feb-23	18-Mar-23			
CON52250	Erect footbridge steel frame PC8 to PC7 (P8 to P7)	12	27-Feb-23	11-Mar-23			
CON52170F	(NCE[TBA]) Inclement weather (21/10/2022 to 20/11/2022) on SYB-LT1	5	28-Feb-23	04-Mar-23			
CON51170	Install glass & window @SYB-LT1	42	06-Mar-23	27-Apr-23			
CON52510	Construct above ground drainage pipe	150	06-Mar-23	05-Sep-23			
CON52172	Construct superstructure SYB-LT1 (remaining works)	48	07-Mar-23	06-May-23			
CON52230	Erect footbridge steel frame SYB-A1 to PC8 (A1 to P8)	12	13-Mar-23	25-Mar-23			
CON52390	Construct deck slab, planter wall and roofing PC8 to PC7 (P8 to P7)	30	13-Mar-23	20-Apr-23			
CON52610	Install steel roof (steel frame) P3 to P4	18	20-Mar-23	13-Apr-23			
CON52790	ABWF works @ escalator pit P7 to P4	60	20-Mar-23	03-Jun-23			
CON52270	Erect footbridge steel frame PC7 to PC6 (P7 to P6)	12	27-Mar-23	13-Apr-23			
CON52370	Construct deck slab, planter wall and roofing SYB-A1 to PC8 (A1 to P8)	30	27-Mar-23	05-May-23			
CON52310	Erect footbridge steel frame PC1 to existing footbridge (P1)	18	27-Mar-23	20-Apr-23			
CON52330	Erect footbridge steel frame PC6 to PC4 (P6 to P5)	12	14-Apr-23	27-Apr-23	_		
CON52410	Construct deck slab, planter wall and roofing PC7 to PC6 (P7 to P6)	30	14-Apr-23	19-May-23	_		
CON52810	ABWF works @ escalator pit P4 to P3	60	14-Apr-23	26-Jun-23			

Actual Work

Remaining Work

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

 Milestone ٠



Page 4 of 4



Contract 4 (ED/2020/02)

Image: Note: Participation (no. 1997) Partiteatetatatatatatatatatatatatatatatatat	D	Fask Name	Duration S	Start	Finish	A 14		0/4	Januar	ry 2023	I	22/4	1	20/4	I	E/0	February 20	023	10/2	I	26/
3 Over core 050 Open core 040 Open core 4 Mach and	1	Contract Period	1375 days F	ri 30/7/21	Sun 4/5/25	1/1	-	0/1		15/1		22/1		29/1		5/2	12/2		19/2		
4 Applicationse in American Section Se	2	Contract Starting Date [Contract Award Date 21 Jul 2021]	0 days F	ri 30/7/21	Fri 30/7/21																_
Protect of Load Control mature 98 00/00 2000 98 00/00 2000 Description of Load Load Control mature 98 00/00 2000 98 00/00 2000 Description of Load Load Load Control mature 98 00/00 2000 98 00/00 2000 Description of Load Load Load Control mature 98 00/00 2000 98 00/00 2000 Description of Load Load Load Control mature 98 00/00 2000 98 00/00 2000 Description of Load Load Load Load Load Load Load Load	3	Contract Duration	1247 days S	at 31/7/21	Sat 28/12/24																
0 Unput of the structure of the st	4	Original Completion Date	0 days S	at 28/12/24	Sat 28/12/24																
Status Status<	5	Potential EOT due to CEs and Inclement weather	93 days S	un 29/12/24	Mon 31/3/25																
0 0	6	Completion of the Whole of the Works			Sun 4/5/25																
0 0	7	Section of Works and Relevant Portions of Work	1375 days F	ri 30/7/21	Sun 4/5/25																+
00 Marcel 10 Frénin 1 Heigh (1992) Piestar 10 Gardynet, Gardyn (1993) Heigh (1994) Heigh (1994) 12 Newel (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 13 Newel (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 14 Gergen (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 14 Gergen (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 15 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 15 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 16 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 16 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 17 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 18 American (100 Am Linkews et al. 10. 10. 2000) Heigh (1994) Heigh (1994) 16 American (100 Am Linkews et al. 10. 2000) Heigh (1994) Heigh (1994) <t< td=""><td>3</td><td></td><td></td><td></td><td>Sun 31/3/24</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><td>+</td></t<>	3				Sun 31/3/24																+
Image: Second	Э		-																		
2 Partial PT as indevendent way 13 J 202 Party NA 3 Partial PT as indevendent way 13 J 202 Party NA 4 Compary A Nova P Assoc Party Ia Society 12 J 200	0																				
3 Multitudit Multituditudit Multituditudit Multitud																					-
1 0 program / Max = Nymes 1: 0 stack in Nymes 0 0 consider / Max = Nymes 1: 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes 0 stack in Nymes 0 0 consider / Max = Nymes Nymes 0 0 consider / Max = Nymes Nymes 0 0 consider / Max = Nymes Nymes <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></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																					
0 Accord Name 0 Sequebra 2000 Mon 2001 0 Contract 2000 0 Sequebra 2000 Non-2001 0 Non-2001 Sequebra 2000 Non-2001 0 Non-2001 Sequebra 2000 Sequebra 2000 0 Non-2001 Non-2001 Sequebra 2000 0 Non-2001 Non-2001 Sequebra 2000 0 Sequebra 2000 Sequebra 2000 Sequebra 2000 <t< 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><td></td><td></td><td></td><td></td><td></td><td></td></t<>																					
0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Name UT Sine CS Name Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Controls for Notion S 040 (months Notion S 0 Social Mither S For S 040 (months Notion S 0 Social Mither S For S 040 (months Notion S 0 Social Mither S For S 040 (months Notion S 0 Social Mither S For S 040 (months Notion S 0 Social Mither S For S 040 (months			· · ·																		
7 Number of the biosener and and any 194 yr 200 Number of the biosener any 194 yr 200 Number of the biosener and any 194 yr 200 Number of the biosener any 194 yr 200 Number of the biosener any 194 yr 200<			· .																		
8 Neurol 201 de los 5. 77 Alguide 2014 86.1094 9 Compsol of Vision Factors 1. 6 Alguide 1410201 114 410201 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 410201 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 410201 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 410201 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 410201 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 51024 10 Compsol of Vision Factors 2. 75 Alguide 1410201 114 51024 10 Alguide Compsol of Vision Factors 2. 75 Alguide 141024 114 51024 10 Alguide Compsol of Vision Factors 2. 75 Alguide 141024 114 51024 10 Alguide Compsol of Vision Factors 2. 75 Alguide 141024 114 51024 10 Alguide Compsol of Vision Factors 2. 75 Alguide 14102 114 51024 10 Alguide Compsol of Vision Factors 2. 75 Alguide 14102 114 51024 10 Comprocol of Vision Factors 2. 75 Alguid																					
99 Ourskin of Wake Frideria 9 Ang Ba 1309 80 - 1309 1 Ourskin De Wake Frideria 9 Ang Ba 1309 90 - 100 12 Ourskin De Wake Frideria 9 Ang Ba 1309 90 - 100 12 Ourskin De Wake Frideria 9 Ang Ba 1309 90 - 100 12 Ourskin De Wake Frideria 9 Ang Ba 1309 90 - 100 12 Ourskin De Wake Frideria 9 Ang Ba 1309 90 - 100 13 State Frideria 9 Ang Ba 1309 90 - 100 14 State Frideria 9 Ang Ba 1309 90 - 100 15 Ourge Constate Wake Frideria 9 Ang Ba 1304 90 - 100 16 Ourge Constate Wake Frideria 9 Ang Ba 1304 90 - 100 17 Constate Wake Frideria 9 Ang Ba 1304 90 - 100 18 Ourge Constate Wake Frideria 9 Ang Ba 1304 90 - 100 18 Ourge Constate Wake Frideria 9 Ang Ba 1304 90 - 100 18 Ourge Constate Wake Frideria 9 Ang Ba 1304 9 Ang Ba 1304 18 Ourge Constate Wake Frideria 9 Ang Ba 1304 9 Ang Ba 1304 18 Ourge Constate Wake Frideria 9 Ang Ba 1304 9 Ang Ba 1304 18 Ourge Constate Wake Frideria 9 Ang 140 9 Ang Ba 140 <t< 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><td></td><td></td><td></td><td></td><td></td><td></td></t<>			•																		
20 Available for Nation 3 0 adapting 14 10/201 To 14/0221 21 Available for Nation 3 100 adapting 14/022 30 adapting 14/022 22 Available for Nation 3 0 adapting 14/02 30 adapting 14/022 23 Available for Nation 3 0 adapting 14/022 30 adapting 14/022 24 Available for Nation 3 0 adapting 14/022 30 adapting 14/022 25 Organ Compation Asta 0 adapting 14/022 Not 13/022 26 Available for Nation 3 0 adapting 14/022 Not 13/022 27 Explander of Nation 5 adapting 1 0 adapting 13/022 Not 13/022 28 Comments adapting 1 0 adapting 13/022 Not 13/022 29 Comments adapting 1 0 adapting 13/022 Not 13/022 20 Organ Compation Asta 0 adapting 13/022 Not 13/022 21 Comments adapting 14/022 12/022 Not 13/022 22 Organ Compation Asta 0 adapting 13/022 Not 13/022 23 Compation Asta 0 adapting 13/022 Not 13/022 24 Comments Adapting 14/022 Not 13/022 Not 13/022 25 Organ Compation Asta 0 adapting 13/022 Not 13/022 26 Comments Adapting 14/022 Not 13/022 <td>8</td> <td></td>	8																				
10 Constructor Location for Location (Location		•	•																		
20 Prove (F) C day is hower water up 0 1 Jy 202 3 9 gr (m) (4 vol 3 5 9 (1/4) 30 Owner (1/4) C day is hower water up 0 1 Jy 202 3 6 gr (m) (4 vol 1 h) (1/2) 5 9 (1/4) 41 Song (1/4) C day is hower hower is hower i			•																		
23 0 Company of Marka Pertor IX 0 Company of Marka Pertor IX 0 Company of Marka Pertor IX 34 Sector of Marka Pertor IX 0 Sector of Marka Pertor IX No IX 0 Sector of Marka Pertor IX No IX																					
24 Section of Works 14. Section from 56 for al Landerage Softwarks 16 section 1 36 seques 10 102 Nor 10224 55 Organ Consiston Dala 0 seques 10 12224 Nr 10 1224 67 Organ Consiston Dala 0 seques 10 1224 Nr 10 1224 67 Organ Consiston Dala 0 seques 10 1224 Nr 10 1224 67 Section of Works 1 Section 1 0 seques 10 124 Nrs 10 125 68 Commention Data Not Priorite 3 10 seques Nation 10 10 124 Nrs 10 125 69 Competion Data Not Priorite 3 17 seques Nation 10 10 124 Nrs 10 125 60 Arcous data Not Priorite 3 17 seques Nation 10 10 124 Nrs 10 125 61 Competion Data Not Priorite 1 17 seques Nation 10 10 124 Nrs 10 125 62 Organ Competion Data Not Priorite 1 17 seques Nation 10 10 124 Nrs 10 120 63 Competion Data Not Priorite Nation 124 18 seques Nation 10 124 18 seques Nation 10 124 64 Competion Data Not Priorite Nation 124 18 seques Nation 124 18 seques Nation 124 65 Section Priorite 1 Section Nation 124 Seques Natin 1202 18 seques Nation 124																					
ory work																					
5 Dogan Computer Indus 0.egs/m. 1002.4 Tu. 1512.4 6 Dogen Computer Indus 0.egs/m. 1002.4 M. 3102.5 7 Exclusioner INVos Exclosi 1 0.85 Seyds M. 102.4 M. 3102.5 9 Scient of Note 5. Seyds 1 0.89 Seyds M. 102.4 M. 3102.5 0 Access data Exclusioner Notes 5. Exclusioner Invos 5. Seyds M. 102.4 0.89 Seyds M. 102.4 M. 3102.5 0 Access data Exclusioner Notes 5. Exclusioner Invos 5. Seyds M. 102.4 0.89 Seyds M. 102.4 M. 8102.7 2 Objerd Completion Educe 0.89 Seyds M. 102.4 M. 8207.2 M. 8620.2 2 Objerd Completion Educe 0.89 Seyds M. 102.4 M. 8620.2 M. 8620.2 2 Objerd Completion Educe 0.89 Seyds M. 102.4 M. 8620.2 M. 8620.2 2 Seyds M. 102.4 0.89 Seyds M. 102.4 M. 8620.2 M. 8620.2 3 Seyds M. 102.4 M. 8620.2 M. 8620.2 M. 8620.2 4 Seyds M. 102.4 M. 8620.2 M. 8620.2 M. 8620.2 5 Seeds M. 101.4 M. 98 Seyds M. 107.2 M. 8620.2	4		365 days S	un 31/3/24	Mon 31/3/25																
	5		0 days T	hu 12/12/24	Thu 12/12/24																
Bit Compain of Works in School 1 Origin Kon 31005 1 Wei 6320 1 9 Section of Works 1- Portice 1 Origin Xi		Commencement of Establishment Work for Section 1	0 days S	un 31/3/24	Sun 31/3/24	_															
Bit Build Works 2- Printing 1 Prior 60 402 00 Access data for Pripting 1 Output Completion Data Output Completion Data<	7	Establishment Work Duration for Section 1	365 days M	lon 1/4/24	Mon 31/3/25	_															
00 Access data for Portion 8 0.000 pc/1 s0/721 15 30/721 11 Conductor Duration for Portion 8 0.000 pc/1 s0/722 Stat 20/722 20 Origin Compliation Data 0.000 pc/1 s0/722 Stat 20/722 32 Phatinat ECT data to Interant watter up 10 31 July 2022 30 duply fix 30/723 Wite 69023 43 Compliation Officia In Data 0.000 pc/1 s0/722 Wite 69023 54 Satchard Works 2A: Establishment Works for all Landscape Sotworks in Satchard 30 deply fix 30/724 Thu 5924 66 Origin Compliation Data 0.000 pc/1 m 5923 Thu 5924 76 Commonecond Estatiationment Works for all Landscape Sotworks in Satchard 30 deply fix 30/723 Thu 5924 67 Compliation Uwick Satchard 0.0000 pc/1 m 5923 Thu 5924 76 Compliation Uwick Satchard 0.0000 pc/1 m 5923 Thu 5924 78 Satchard Works Satchard 0.0000 pc/1 m 5923 Thu 5924 78 Compliation Uwick in Satchard 0.00000 pc/1 m 5923 Thu 5924 78 Compliation Portion 10 0.00000 pc/1 m 5923 Thu 5924 78 <td>8</td> <td>Completion of Works in Section 1</td> <td>0 days M</td> <td>lon 31/3/25</td> <td>Mon 31/3/25</td> <td>_</td> <td></td>	8	Completion of Works in Section 1	0 days M	lon 31/3/25	Mon 31/3/25	_															
1 Codenation Duration for Partice 8 720 days fr 30771 Set 30773 22 Objinal Completion Date 0 days Set 25772 Set 25772 31 Peteral EXI date in telement teament up to 31 Aly 2022 38 days Set 25772 42 Completion Of West in Section 2 0 days West 6973 West 6973 43 Completion Of West in Section 2 38 days may west 6973 West 6973 44 Commencement of Existention Date 0 days West 6973 West 6973 45 Section of West in Section 2 38 days may 2074 Section 37 West 5 Section 2 46 Organ Completion Date 0 days The 5974 Section 37 West 5 Section 2 47 Commencement of Existention 10x 0 days The 5974 The 5974 48 Existent West 3 - Section 12 0 days The 5974 The 5974 49 Contraction free section 12 0 days The 2574 The 5974 41 Organ Completion Date 0 days The 2574 The 5974 42 Access date for Partice 1 State 0 days The 2574 The 2574 43 Construction Duration for Partice 1 State 34, 5 The 35724 The 2574 44 Pretent EXit Partice	9	Section of Works 2 - Portion 8	769 days F	ri 30/7/21	Wed 6/9/23																+
11 Construction Duration Device 0 Portice 8 170 days F1307/21 Set 2577.3 12 Original Completion Date 0 days F1307/21 Set 2577.3 13 Ponetical Considering 0 days Set 2577.3 Wed 6923 14 Completion 1 davie to the interment weether up to 31.34/2022 35 days Wed 6923 Wed 6923 15 Section of Works 3. Perturbationment Vork for solution is social 2 35 days Wed 6923 Wed 5923 16 Original Completion Date 0 days Wed 6923 Wed 5923 16 Original Completion Date 0 days Wed 6923 Wed 5923 17 Commensent of Establishment Work for solution 2 0 days Wed 6923 Wed 5923 18 Establishment Work Duration for Section 2 0 days Wed 5924 Wed 5924 19 Completion Vorks in S-benins 1b, 3, 4, 5 770 days f0 507.1 Wed 5923 12 Access date for Portion 1b 0 days Tu 250.2 Tu 2802.3 12 Access date for Portion 1b 0 days Tu 260.2 Nord 3.2 13 Construction Duation to Portion 1b 0 days Tu 260.2 Nord 3.2 14 Ponetica Col as biodement weether up to 31 July 2022 9 days Sm 270.2 Nord 3.2	0	Access date for Portion 8	0 days F	ri 30/7/21	Fri 30/7/21																
33 Paternial EOT das to holoment wather up to 31 July 202 31 days Sun 207.23 Week 602.3 34 Completion of Works in Portion 8 0 days Week 692.3 Week 692.3 55 Section of Works in Portion 8 0 days Week 692.3 Week 692.3 76 Commentionent Week Sublishment Works for all Landscape Softworks in Section 2 0 days Week 692.3 Week 692.3 77 Commentionent of Establishment Work for Section 2 0 days Week 692.3 Week 692.3 78 Establishment Work for Section 2 0 days Week 692.3 Week 692.3 78 Establishment Work for Section 2 0 days The 592.4 The 592.4 79 Completion View for Section 2 0 days The 592.4 The 592.4 70 Completion Use for Section 1 0 days The 392.72 The 392.72 71 Original Completion Date 0 days The 392.72 The 392.72 72 Access date for Portion 1 0 days The 392.72 The 392.72 72 Construction Duzidon for Portion 1 0 days Week 392.72 The 292.72 73 Construction Duzidon for Portion 1 0 days Niked 31.62.2 Section 201.12	1	Construction Duration for Portion 8	730 days F	ri 30/7/21	Sat 29/7/23																
44 Completion of Works 2A: Establishment Works for all Landscape Softworks in Section 2 0 days Wed 6923 Wed 6923 Full 10824 60 Original Completion Date 0 days Wed 6923 Full 10824 Full 10824 61 Original Completion Date 0 days Wed 6923 Full 10824 Full 10824 62 Completion of Works 2A: Establishment Works for Section 2 0 days Wed 6923 Full 10824 Full 10824 63 Completion of Works 3A: Portions 15, 1, 4 0 days Full 10824 Full 10824 Full 10824 64 Original Completion Date 0 days Full 20124 Tup 59244 Full 10824 65 Section of Works 3A: Portions 15, 1, 4 700 days Full 20124 Tup 20122 Full 201122 63 Original Completion Date for Portion 15 0 days Full 2011122 Tup 201122 Full 201122 64 Access date for Portion 15 0 days Full 2011123 Full 201122 Full 201122 64 Access date for Portion 3 6 days Full 20123 Full 20124 Full 20124 74 Potterial E017 due to Indiament weather up 0 31 July 2022 39 days Sun 307723 Full 70234 Full	2	Original Completion Date	0 days S	at 29/7/23	Sat 29/7/23																
35 Section of Works 2A. Establishment Works for all Landscape Softworks in Section 2 365 days Wei 66023 The 5924 36 Original Completion Date 0 days Nue 66023 Wei 6923 37 Commensement of Establishment Work for Section 2 0 days Nue 66023 Wei 6923 38 Establishment Work for Section 2 0 days Nue 66023 Wei 6923 38 Establishment Work for Section 2 0 days Thu 5924 Thu 5924 39 Completion Of Works J. Section 3 0 days Thu 5924 Thu 5924 40 Section of Works J. Section 3 0 days Thu 39023 Thu 5924 41 Original Completion Date 0 days Thu 291122 Thu 5924 42 Access date for Portion 1b 0 days Thu 291122 The 291122 43 Construction Duation for Portion 1b 0 days Thu 7923 Thu 7923 44 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 29121 Nu 29214 45 Construction Duation for Portion 3 66 days Sin 291121 Sta 29723 46 Access date for Portion 3 60 days Sin 291121 Sta 29723 47 Potential EOT due to Inclement weatheru p to 31 July 2022 39 days Sin 307123	3	Potential EOT due to Inclement weather up to 31 July 2022	39 days S	un 30/7/23	Wed 6/9/23																
Offew Works Offew Works Offew Works 0 Original Completion Date 0 days Wind 68923 Wind 68923 37 Commencement of Establishment Work for Section 2 0 days Wind 68923 Wind 68923 38 Establishment Work for Section 2 0 days Thr 93924 Thr 93924 30 Completion of Works in Section 2 0 days Thr 93924 Thr 93924 400 Section of Works in Section 2 0 days Thr 930724 Thr 97923 41 Original Completion Date 0 days Thr 930724 Thr 97923 42 Accessed for Portion 1b 0 days Thr 930724 Thr 97933 43 Construction Duration for Portion 1b 0 days Thr 931734 Section of Works in Section 13 44 Potential EOT due to Indement weather up to 31 July 2022 38 days Wed 29821 Wed 29821 45 Completion Portion 3 0 days Thr 9733 Wed 6823 46 Accessed date for Portion 3 0 days Wind 29821 Wed 29823 47 PMI 003 & 004 isseed 61 days Wed 29821 Wed 8923 48 Construction Duration for Portion 3 60 days Thr 97373	4	Completion of Works in Portion 8	0 days W	/ed 6/9/23	Wed 6/9/23																
66 Original Completion Date O days Sun 28/724 Sun 28/724 77 Commencement of Esabelishment Work for Section 2 0 days Wed 59/23 Wed 69/23 81 Estabilishment Work for Section 2 0 days Wed 59/23 The 59/24 99 Completion Of Works in Section 2 0 days Thu 59/24 Thu 59/24 10 Organ Completion Date 0 days Thu 59/24 Thu 59/24 11 Original Completion Date 0 days Thu 59/24 Thu 59/24 12 Access date for Portion 1b 0 days Tuo 29/11/22 Tuo 30/523 12 Access date for Portion 1b 0 days Wed 319/22 Tuo 30/523 13 Contruction Duation for Portion 1b 0 days Wed 319/23 Sat 8/7/23 14 Portential EOT due to Indement weather up to 31 July 2022 39 days Wad 319/23 Sat 8/7/23 14 Portential EOT due to Indement weather up to 31 July 2022 39 days San 307/23 Wed 29/921 17 PMI 003 & 004 issued 61 days Wed 319/21 Nu 28/12/2 Nu 28/12/2 19 Potential EOT due to Indement weather up to 31 July 2022 39 days San 307/23 Wed 68/23 P	5		365 days W	/ed 6/9/23	Thu 5/9/24																
37 Commencement of Establishment Work for Section 2 0 days Wed 6/923 Wed 6/923 38 Establishment Work for Section 2 0 days Tur 5/924 Tur 5/924 39 Completion of Works in Section 2 0 days Tur 5/923 Tur 5/924 39 Section of Works in Section 2 0 days Tur 5/923 Tur 7/923 41 Original Completion Date 0 days Tur 2/923 Tur 3/923 52 Access date for Portion 1b 0 days Tur 2/923 Set 8/723 53 Commuticon Duration for Portion 3 0 days Tur 2/923 Set 8/723 64 Access date for Portion 3 0 days Tur 2/923 Set 8/723 74 PMOntail EOT due to Indement weather up to 31 July 2022 39 days Wed 31/523 Set 8/723 75 Construction Duration for Portion 3 0 days Tur 2/923 Tur 2/923 74 PMOntail EOT due to Indement weather up to 31 July 2022 39 days Sun 20/1121 Set 29/723 76 PAdoress date for Portion 4 0 days Fi 30/721 Set 29/723 76 PAdoress date for Portion 4 0 days Fi 30/721 Set 29/723 76 PAdoress date for Portion 4 0 days Fi 30/721 Fi 30/721	6		0 davs S	un 28/7/24	Sun 28/7/24																
388 Establishment Work Duration for Section 2 385 days Thu 59/24 Thu 59/24 399 Completion of Works in Section 2 0 days Thu 59/24 Thu 59/24 400 Section of Works in Section 2 0 days Thu 59/24 Thu 59/24 411 Original Completion Date 0 days Thu 59/24 Thu 59/24 422 Access date for Portion 1b 0 days Thu 29/11/22 Tue 39/11/22 433 Construction Duration for Portion 1b 0 days Thu 29/11/22 Tue 39/11/22 444 Potential EOT due to Indement weather up to 31 July 2022 39 days Wed 31/62/3 Sat 87/723 455 Completion of Works in Portion 3 0 days Thu 79/23 Thu 79/23 468 Access date for Portion 3 60 days Sun 28/11/21 Sat 28/723 479 PMIC033 AOM issued 61 days Wed 29/89/21 Sun 28/11/21 488 Construction Duration for Portion 3 60 days Sun 28/11/21 Sat 28/723 499 Potential EOT due to Indement weather up to 31 July 2022 39 days Wed 31/623 Sat 27/723 403 Completion of Works in Portion 3 0 days Thu 79/23 Thu 79/23 403 Potential EOT due to Indement weather up to 31 July 2022 3			· ·																		
39 Completion of Works is Section 2 0 days, Tw 59/24 Tw 59/24 Tw 59/24 10 Section of Works is Portions th, 3, 4, 5 770 days fr 30/721 Tw 79/23 11 Original Completion Date 0 days, Tw 50/523 Tw 80/523 12 Access date for Portion 1b 183 days, Tw 29/11/22 Tw 30/523 Set 80/73 12 Access date for Portion 1b 183 days, Tw 29/11/22 Tw 30/523 Set 80/73 13 Completion of Works is Portion 1b 183 days, Tw 29/11/22 Tw 30/523 Set 80/73 14 Potential EOT due to Indement weather up to 31 July 2022 30 days, Wa 219/21 Wad 29/92.1 Wad 29/92.1 16 Access date for Portion 3 600 days, Sun 28/11/21 Set 29/72.3 17 Potential EOT due to Indement weather up to 31 July 2022 39 days, Sun 28/11/21 Set 29/72.3 18 Construction Duration of Portion 3 600 days, Sin 28/11/21 Set 29/72.3 19 Potential EOT due to Indement weather up to 31 July 2022 39 days, Sin 30/72.1 Fi 30/72.1 12 Construction Duration of Portion 4 O days Fi 30/72.1 Fi 30/72.1 <t< 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><td></td><td></td><td></td><td></td><td></td><td></td></t<>						_															
40 Section of Works 3 - Portions 1b, 3, 4, 5 770 days Fri 307/21 Thu 7/9/23 41 Original Completion Date 0 days Tue 30/6/23 Tue 30/6/23 42 Access date for Portion 1b 0 days Tue 29/11/22 Tue 30/6/23 43 Construction Duration for Portion 1b 0 days Tue 29/11/22 Tue 30/6/23 44 Potential EOT due to Indement weather up to 31 July 2022 39 days Wed 316/23 Sat 80/723 45 Completion of Portion 3 0 days Thu 7/9/23 Thu 7/9/23 46 Access date for Portion 3 0 days Wed 29/9/21 Wed 29/9/21 47 PMI 003 & 0.04 issued 61 days Wed 29/9/21 Suc 29/17/24 48 Completion for Portion 3 0 days Thu 7/9/23 Thu 7/9/23 49 Potential EOT due to Indement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 6/9/23 50 Completion Or Portion 4 0 days Fin 307/21 Fin 307/21 51 Access date for Portion 4 0 days Fin 307/21 Fin 307/21 52 Construction Duration for Portion 4 0 days Fin 307/21 Fin 307/21 53 Potential EOT due to Indement weather up to 31 July 2022 39 days Sun 30/7/23																					
41 Original Completion Date 0 days Tue 30/5/23 Tue 30/5/23 42 Access date for Portion 1b 0 days Tue 29/11/22 Tue 30/5/23 43 Construction Duration for Portion 1b 183 days Tue 29/11/22 Tue 30/5/23 44 Potentianent weather up to 31 July 2022 39 days Tue 29/11/22 Tue 30/5/23 45 Completion of Works in Portion 1b 0 days Thu 7/9/23 Thu 7/9/23 46 Access date for Portion 3 0 days Wed 29/9/21 Wed 29/9/21 47 PMI 003 & 0/4 issued 61 days Wed 29/9/21 Sun 28/11/21 48 Construction Duration for Portion 3 60/9 days Sun 28/11/21 Sat 29/7/23 49 Potentiant Weather up to 31 July 2022 39 days Sun 28/11/21 Sat 29/7/23 40 Potentiant Weather up to 31 July 2022 39 days Sun 28/11/21 Sat 29/7/23 50 Completion of Works in Portion 3 0 days Fin 30/7/21 Fin 30/7/21 51 Access date for Portion 4 0 days Fin 30/7/21 Fin 30/7/21 52 Construction Duration for Portion 4 0 days Fin 30/7/21 Fin 30/7/21 53 PotentianetT weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7		Section of Works 3 - Portions 1b, 3, 4, 5	-		Thu 7/9/23																_
42 Access date for Portion 1b 0 days Tue 29/11/22 Tue 29/11/22 Tue 30/5/23 43 Construction Duration for Portion 1b 183 days Tue 29/11/22 Tue 30/5/23 44 Potential EOT due to Indement westher up to 31 July 2022 33 days Wed 31/5/23 Sat 87/73 45 Completion of Works in Portion 1b 0 days Tur 29/91/21 Thu 7/9/23 46 Access date for Portion 3 0 days Wed 29/92/1 Wed 29/92/1 47 PMI 003 & 004 issued 61 days Wed 29/92/1 Sun 28/11/21 48 Construction Duration for Portion 3 60 days Sun 28/11/21 Sat 29/7/23 49 Potential EOT due to Indement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 69/923 50 Completion of Works in Portion 4 0 days Fin 30/7/21 Fin 30/7/21 51 Access date for Portion 4 67 days Fin 30/7/21 Tue 90/5/23 52 Construction Duration for Portion 4 67 days Fin 30/7/21 Tue 90/5/23 53 Potential EOT due to Indement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 54 Completion of Works in Portion 4 67 days Fin 19/23 Fin 19/23 54 Completion of		Original Completion Date	0 days T	ue 30/5/23	Tue 30/5/23																
3 Construction Duration for Portion 1b 183 days Tue 29/11/22 Tue 30/5/23 44 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 87/723 55 Completion of Works in Portion 1b 0 days Thu 7/9/23 Thu 7/9/23 16 Access date for Portion 3 0 days Wed 29/9/21 Sun 28/11/21 17 PMI 003 & 004 issued 61 days Wed 29/9/21 Sun 28/11/21 18 Construction Duration for Portion 3 609 days Sun 28/11/21 Sat 28/7/23 19 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Thu 7/9/23 10 Access date for Portion 4 0 days Fin 30/7/21 Fin 30/7/21 10 Access date for Portion 4 0 days Fin 30/7/21 Tue 30/5/23 11 Access date for Portion 4 670 days Fin 30/7/21 Fin 30/7/21 12 Construction Duration for Portion 4 670 days Fin 30/7/21 Tue 30/5/23 13 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 87/7/23 13 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 87/7/23 14 Completion of Wo		Access date for Portion 1b	0 days T	ue 29/11/22	Tue 29/11/22																
44 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 45 Completion of Works in Portion 1b 0 days Thu 7/9/23 Thu 7/9/23 46 Access date for Portion 3 0 days Wed 29/9/21 Wed 29/9/21 47 PMI 003 8 004 issued 61 days Wed 29/9/21 Sat 8/7/23 48 Construction Duration for Portion 3 600 days Sun 28/11/21 Sat 29/7/23 49 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 6/9/23 50 Completion of Works in Portion 4 0 days Fin 30/7/21 Fin 30/7/21 51 Access date for Portion 4 670 days Fin 30/7/21 Tue 30/5/23 52 Construction Duration for Portion 4 670 days Fin 30/7/21 Tue 30/5/23 53 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 54 Completion of Works in Portion 4 0 days Fin 1/9/23 Fin 1/9/23 54 Completion of Works in Portion 4 0 days Fin 1/9/23 Fin 1/9/23 54 Completion of Works in Portion 4 0 days Fin 1/9/23 Fin 1/9/23		Construction Duration for Portion 1b	183 days T	ue 29/11/22	Tue 30/5/23																
Access date for Portion 3 0 days Wed 29/9/21 Wed 29/9/21 47 PMI 003 & 004 issued 61 days Wed 29/9/21 Sun 28/11/21 48 Construction Duration for Portion 3 609 days Sun 28/11/21 Set 29/7/23 49 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 619/23 50 Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 51 Access date for Portion 4 0 days Fi 30/7/21 Fii 30/7/21 52 Construction Duration for Portion 4 670 days Fii 30/7/23 Set 8/7/23 53 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Set 8/7/23 54 Completion of Works in Portion 4 0 days Fii 19/23 Fii 19/23		Potential EOT due to Inclement weather up to 31 July 2022	39 days W	/ed 31/5/23	Sat 8/7/23	_															
PMI 003 & 004 issued 61 day Wed 29/9/21 Sun 28/11/21 48 Construction Duration for Portion 3 609 days Sun 28/11/21 Sat 29/7/23 49 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 6/9/23 50 Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 51 Access date for Portion 4 0 days Fri 30/7/21 Fri 30/7/21 52 Construction Duration for Portion 4 670 days Fri 30/7/23 53 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sat 81/7/23 54 Completion of Works in Portion 4 0 days Fri 19/23 54 Completion of Works in Portion 4 0 days Fri 19/23 54 Completion of Works in Portion 4 0 days Fri 19/23	5	Completion of Works in Portion 1b	0 days T	hu 7/9/23	Thu 7/9/23																
R8 Construction Duration for Portion 3 609 days Sun 28/11/21 Sat 29/7/23 Iversity Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 6/9/23 Iversity Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 Iversity Access date for Portion 4 0 days Fri 30/7/21 Fir 30/7/21 Iversity Construction Duration for Portion 4 670 days Fir 30/7/21 Iversity Fir 30/7/21 Tue 30/5/23 Iversity Sat 8/7/23 Sat 8/7/23 Iversity O days Fir 19/23 Iversity Fir 19/23 Fir 19/23	6	Access date for Portion 3	0 days W	/ed 29/9/21	Wed 29/9/21																
19 Potential EOT due to Inclement weather up to 31 July 2022 39 days Sun 30/7/23 Wed 6/9/23 50 Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 51 Access date for Portion 4 0 days Fri 30/7/21 Fii 30/7/21 52 Construction Duration for Portion 4 670 days Fri 30/7/21 Tue 30/5/23 53 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 54 Completion of Works in Portion 4 0 days Fri 19/23 Fri 19/23 Fri 19/23	7	PMI 003 & 004 issued	61 days W	/ed 29/9/21	Sun 28/11/21																
S0 Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 S1 Access date for Portion 4 0 days Fri 30/7/21 Fri 30/7/21 S2 Construction Duration for Portion 4 670 days Fri 30/7/21 Tue 305/23 S3 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 S4 Completion of Works in Portion 4 0 days Fri 19/23 Fri 19/23	8	Construction Duration for Portion 3	609 days S	un 28/11/21	Sat 29/7/23																
0 Completion of Works in Portion 3 0 days Thu 7/9/23 Thu 7/9/23 1 Access date for Portion 4 0 days Fri 307/21 Fri 307/21 2 Construction Duration for Portion 4 670 days Fri 307/21 Tue 30/5/23 3 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 4 Completion of Works in Portion 4 0 days Fri 1/9/23 Fri 1/9/23		Potential EOT due to Inclement weather up to 31 July 2022	39 days S	un 30/7/23	Wed 6/9/23																
2 Construction Duration for Portion 4 670 days Fri 307/21 Tue 30/5/23 3 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 4 Completion of Works in Portion 4 0 days Fri 1/9/23 Fri 1/9/23		Completion of Works in Portion 3	0 days T	hu 7/9/23	Thu 7/9/23																
3 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 4 Completion of Works in Portion 4 0 days Fri 1/9/23 Fri 1/9/23	1	Access date for Portion 4	0 days F	ri 30/7/21	Fri 30/7/21																
3 Potential EOT due to Inclement weather up to 31 July 2022 39 days Wed 31/5/23 Sat 8/7/23 4 Completion of Works in Portion 4 0 days Fri 1/9/23 Fri 1/9/23	2	Construction Duration for Portion 4	670 days F	ri 30/7/21	Tue 30/5/23																
4 Completion of Works in Portion 4 0 days Fri 1/9/23 Fri 1/9/23 Fri 1/9/23		Potential EOT due to Inclement weather up to 31 July 2022	39 days V	/ed 31/5/23	Sat 8/7/23																
		Completion of Works in Portion 4	0 days F	ri 1/9/23	Fri 1/9/23																
na International Water I Task Control Task					1	1	1							1							I
				•	0																

5/3	March 2023 12/3	19/3	26/3	

						Re	evised Works	Program	me : Octob	per 2022					
D T	ask Name	Duration Start	Finish	1/1		J 8/1	anuary 2023 15/1		22/1		29/1	5/2	February 2 12/2	19/2	2
55	Access date for Portion 5	0 days Sat 26/2/22	Sat 26/2/22	1/1		0/1	10/1		22/1		20/1	0/2	12/2	 10/2	
6	Construction Duration for Portion 5	458 days Sat 26/2/22	Mon 29/5/23												
7	Potential EOT due to Inclement weather up to 31 July 2022	39 days Tue 30/5/23	Fri 7/7/23												
8	Completion of Works in Portion 5	0 days Tue 5/9/23	Tue 5/9/23	-											
9	Section of Works 3A - Establishment Works for all Landscape Softworks in Section 3 of the Works	365 days Thu 7/9/23	Fri 6/9/24	_											
0	Original Completion Date	0 days Wed 29/5/24	Wed 29/5/24	_											
1	Commencement of Establishment Work for Section 3	0 days Thu 7/9/23	Thu 7/9/23												
2	Establishment Work Duration for Section 3	365 days Fri 8/9/23	Fri 6/9/24												
3	Completion of Works in Section 3	0 days Fri 6/9/24	Fri 6/9/24												
4	Section of Works 4 - Portions 6, 12	976 days Fri 30/7/21	Sun 31/3/24												-
5	Original Completion Date	0 days Mon 29/1/24	Mon 29/1/24												
6	Access date for Portion 6	0 days Sat 29/1/22	Sat 29/1/22												
7	Deferred possession	81 days Sat 29/1/22	Tue 19/4/22												
8	Construction Duration for Portion 6	673 days Wed 20/4/22	Wed 21/2/24												
9	Potential EOT due to Inclement weather up to 31 July 2022	39 days Thu 22/2/24	Sun 31/3/24												
0	Completion of Works in Portion 6	0 days Sun 31/3/24	Sun 31/3/24												
1	Access date for Portion 12	0 days Fri 30/7/21	Fri 30/7/21	-							1				
2	Construction Duration for Portion 12	914 days Fri 30/7/21	Mon 29/1/24												
3	Potential EOT due to Inclement weather up to 31 July 2022	39 days Tue 30/1/24	Fri 8/3/24												
4	Completion of Works in Portion 12	0 days Fri 8/3/24	Fri 8/3/24	_											
5	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	365 days Sun 31/3/24	Mon 31/3/25	_											
3	Original Completion Date	0 days Tue 28/1/25	Tue 28/1/25												
,	Commencement of Establishment Work for Section 4	0 days Sun 31/3/24	Sun 31/3/24												
	Establishment Work Duration for Section 4	365 days Mon 1/4/24	Mon 31/3/25												
	Completion of Works in Section 4	0 days Mon 31/3/25	Mon 31/3/25	_											
	Section of Works 5A - Portions 9, 10	738 days Fri 30/7/21	Sun 6/8/23	_											
	Original Completion Date	0 days Wed 28/6/23	Wed 28/6/23	_											
2	Access date for Portion 9	0 days Wed 29/9/21	Wed 29/9/21	_											
3	Construction Duration for Portion 9	638 days Wed 29/9/21	Wed 28/6/23									 		 	
	Potential EOT due to Inclement weather up to 31 July 2022	39 days Thu 29/6/23	Sun 6/8/23	-											
5	Completion of Works in Portion 9	0 days Sun 6/8/23	Sun 6/8/23												
, ;	Access date for Portion 10	0 days Fri 30/7/21	Fri 30/7/21	_											
,	Construction Duration for Portion 10	699 days Fri 30/7/21	Wed 28/6/23												
3	Potential EOT due to Inclement weather up to 31 July 2022	39 days Thu 29/6/23	Sun 6/8/23											 	
,	Completion of Works in Portion 10	0 days Sun 6/8/23	Sun 6/8/23	_											
)	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works	365 days Sun 6/8/23	Mon 5/8/24	_											
	Original Completion Date	0 days Thu 27/6/24	Thu 27/6/24	-											
2	Commencement of Establishment Work for Section 5A	0 days Sun 6/8/23	Sun 6/8/23												
3	Establishment Work Duration for Section 5A	365 days Mon 7/8/23	Mon 5/8/24												
ŀ	Completion of Works in Section 5A	0 days Mon 5/8/24	Mon 5/8/24												
;	Section of Works 5B - Portion 11	526 days Sat 26/2/22	Sat 5/8/23												
;	Original Completion Date	0 days Tue 27/6/23	Tue 27/6/23												
	Access date for Portion 11	0 days Sat 26/2/22	Sat 26/2/22	-											
;	Construction Duration for Portion 11	487 days Sat 26/2/22	Tue 27/6/23												
,)	Potential EOT due to Inclement weather up to 31 July 2022	39 days Wed 28/6/23	Sat 5/8/23												
0	Completion of Works in Portion 11	0 days Sat 5/8/23	Sat 5/8/23	-											
	Section of Works 6 - Portion 7	365 days Tue 29/11/22	Tue 28/11/23	_											
2	Original Completion Date	0 days Tue 28/11/23	Tue 28/11/23	_											
3	Access date for Portion 7	0 days Tue 29/11/22	Tue 29/11/22	_											
4	Construction Duration for Portion 7	365 days Tue 29/11/22	Tue 28/11/23											 	
5	Completion of Works in Portion 7	0 days Tue 28/11/23	Tue 28/11/23	_											
5	Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6	365 days Tue 28/11/23	Wed 27/11/24	_											
7	of the Works Original Completion Date	0 days Wed 27/11/24	Wed 27/11/24	_											
					1										
	ternational Water Task Critical Task Critical Task	Milestone 🔷	Summary 🔻												
	r														

5/3	March 2023 12/3	19/3	26/3	

00/0000000000000000000000000000000000	China I	nternational Water & Electric Corp.			Develop	ment of	Anderso	on Road	d Quarry S	Site - Infr	. ED/2020/ astructure, me : Octob	, Greenir	ng and Land	scape Work	ks						
Note of the start is and it is a start	ID	Task Name	Duration Start	Finish	1/1		8/1	Janu			22/1		29/1	5/2	Fel	19	9/2	:	26/2	5/3	March 202 12/3
Ind Control Contro Control Contro Contro Contro Contro Contro Contro Contro Contro Contr	108																				
11 Second	109	Establishment Work Duration for Section 6	365 days Wed 29/11/23	Wed 27/11/24																	
111 An way way way is an analysis of a part of	110	Completion of Works in Section 6	0 days Wed 27/11/24	Wed 27/11/24																	
10 Control March Nath 1 March Action March Action <td>111</td> <td>Section of Works 7A - Portions 13a, 14 (DELETED)</td> <td>669 days Fri 30/7/21</td> <td>Mon 29/5/23</td> <td></td>	111	Section of Works 7A - Portions 13a, 14 (DELETED)	669 days Fri 30/7/21	Mon 29/5/23																	
11 Control Alian Standing Seale Standing Seale Standing 12 Control Alian Standing Seale Standing Seale Standing 13 Control Alian Standing Seale Standing Seale Standing 14 Control Alian Standing Seale Standing Seale Standing 15 Control Alian Standing Seale Standing Seale Standing 16 Control Alian Standing Seale Standing Seale Standing 17 Control Alian Standing Seale Standing Seale Standing 18 Control Alian Standing Seale Standing Seale Standing 19 Control Alian Standing Seale Standing Seale Standing 10 Control Alian Standing Seale Standing Seale Standing 11 Control Alian Standing Seale Standing Seale Standing 12 Control Alian Standing Seale Standing Seale Standing 13 Control Alian Standing Seale Sta	112	Access date for Portion 13a	0 days Sat 29/1/22	Sat 29/1/22																	
111 Control	113	Construction Duration for Portion 13a	486 days Sat 29/1/22	Mon 29/5/23																	
10 Concept Under Lefford 4 Weight 2001 No.553	114	Completion of Works in Portion 13a	0 days Mon 29/5/23	Mon 29/5/23																	
111 0<	115	Access date for Portion 14	0 days Fri 30/7/21	Fri 30/7/21																	
11 Discrete field construction of the state of the st	116	Construction Duration for Portion 14	669 days Fri 30/7/21	Mon 29/5/23																	
Decision of the strength of the strengt	117	Completion of Works in Portion 14	0 days Mon 29/5/23	Mon 29/5/23																	
1/2 Eustrone Note Audie Notation Nation Na		7A of the Works (DELETED)																			
12 Conversion Watch Status Status 0 status Status <			-		_																
20 Number of the set of			-																		
1/2 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage 1/2 Name of the structure frage Name of the structure frage Name of the structure frage <		-	-																		
1/2 Auxies als Prévint (1) 6 augus 2012 Auxi2001 1/2 Subscience (1) 6 augus 2012 Auxies als Prévint (1) 6 augus 2012 1/2 Nuclei Thataine saine als algo 2012 10 augus 2013 10 augus 2013 10 augus 2013 1/2 Nuclei Thataine saine algo 2013 10 augus 2013 10 augus 2013 10 augus 2013 10 augus 2013 1/2 Nuclei Thataine saine algo 2013 10 augus 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine saine algo 2013 10 augus 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine saine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014 10 augus 2014 1/2 Nuclei Thataine algo 2014 10 augus 2014 10 augus 2014																					
1/20 Outgoing Seconds / Mart 13 00 (Seconds / Mart 13) 00 (Seconds / M			-																		
100 Consistent for som 10 01 regivered 2002 14			-																		
1/2/1 Availed fit that subject makes (1), 31, 420 Availed fit that subject makes (1), 31, 420 <td></td>																					
1/2 Comparison from the Tail (1) 0 stepsize (1) stepsize (1) 0 stepsize (1) stepsize (1) 0 stepsize (1) stepsize (1) 0 stepsize (1)	126	Construction Duration for Portion 13b	671 days Wed 20/4/22	Mon 19/2/24																	
100 Adde and investes 16 9 degline 27022 100 a 27022 111 Contracto fuzzo 50 arms 5 11 degline 27022 100 arms 5 113 Contracto fuzzo 50 arms 5 11 degline 2702 100 arms 5 113 Contracto fuzzo 50 arms 5 11 degline 2702 100 arms 5 113 Contracto fuzzo 50 arms 5 11 degline 2702 100 arms 5 113 Contracto fuzzo 50 arms 5 11 degline 2702 100 arms 5 113 Contracto fuzzo 50 arms 5 11 degline 2702 100 arms 5 114 Contracto fuzzo 50 fuzzo 50 arms 5 11 degline 2702 100 arms 5 115 Contracto fuzzo 50 f	127	Potential EOT due to Inclement weather up to 31 July 2022	29 days Tue 20/2/24	Tue 19/3/24																	
100 Order downed weither in Section 1 84 and weith 2002 119 Weith 2002	128	Completion of Works in Portion 13b	0 days Tue 19/3/24	Tue 19/3/24																	
11 Contractor June for Version 3 01 1 age Val 20102 Normal Contractor Version 3 01 1 age Val 20102 Normal Contractor Version 3 01 1 age Val 20102 Normal Contractor Version 3 01 age Val 2010 Normal Contractor Version 3 0	129	Access date for Portion 15																			
12 Period Ciff Ale b L-Sender 1941 194 202 29 ales 74 2024 To 1934 13 Contraction Water Period 19 39 ales 74 2024 Not 1934 13 Contraction Water Period 19 39 ales 74 2024 Not 1934 13 Contraction Water Period 19 39 ales 74 1934 Not 1934 13 Contraction Water Period 19 39 ales 74 1934 Not 1934 13 Contraction Water Period 19 39 ales 74 1934 Not 1934 13 Contraction Water Period 19 39 ales 74 1934 Not 1934 13 Contraction Not 19 ales 74 18 ales 74 1944 Not 1934 14 Advanced Not 19 ales 74 18 ales 74 1944 Not 1934 15 Dedd Contraction Period 19 18 ales 74 1944 Not 1944 16 Advanced Not 1944 18 ales 74 1944 Not 1944 17 Advanced Not 1944 18 ales 74 1944 Not 1944 18 Advanced Not 1944 18 ales 74 1944 Not 1944 18 Advanced Not 1944 18 ales 74 1944 Not 1944 18 Dedd Not 1944 18 ales 74 1944 18 ales 74 1944 18 Dedd Not 1944<	130	-	-																		
133 Completion of Web is Profer 15 0 days The 1000 0 10 days The 1000 0 134 Completion of Web is Profer 15 0 days Landents With for Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege Softwark is Reduil 0 days Landents With For Landendege With For Landendege Softwark is Reduil 0 days Landendege Softwark is Reduil 0 d		Construction Duration for Portion 15	671 days Wed 20/4/22	Mon 19/2/24																	
14 Solution Water, 191: Individuent Wate for all Lunderge Solution in Solution 949 ger 1e 1902 4 Wei 1902 5 135 Origin Compton Dam 0 dage Solution Water 192 5 1 dage Solution Water 192 5 1 dage Solution Water 192 5 136 Commitsment Glassification Water 192 5 1 dage Solution Water 192 5 1 dage	132	Potential EOT due to Inclement weather up to 31 July 2022	29 days Tue 20/2/24	Tue 19/3/24																	
R R	133	Completion of Works in Portion 15	0 days Tue 19/3/24	Tue 19/3/24																	
196 Communication factobanet when for Socies 70 0.00 yet 70 yet 200 for Socies 70 0.00 yet 70 yet 200 for Socies 70 197 Communication factobanet when for Socies 70 0.00 yet 70 yet 200 for Socies 70 0.00 yet 70 yet 200 for Socies 70 198 Communication factobanet when for Socies 70 0.00 yet 70 yet 200 for Socies 70 0.00 yet 70 yet 200 for Socies 70 0.00 yet 200 for Socies 70 100 Origins Computer This 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 101 Conscience for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 102 Conscience for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 103 Pacinta Socie 70 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 103 Socies 70 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 103 Socies 70 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 104 Conscient for Mode for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200 for Socies 70 0.00 yet 200		7B of the Works																			
1 Extendement Work Dations for Satures Tail 90 degree Works 15 destes Tail 90 degree			-																		
138 Completer all/winks is Sedion 79 00.000/Wink 1900/200 W1902/50 139 Second Winks is Sedion 76 00.000/Wink 2000/20 Net/2000/Wink 2000/20 141 Access des Kinfforto 16 0.000/Wink 2000/20 Net/2000/Wink 2000/20 142 Contraction Chadron Kinfforto 15 0.000/Wink 2000/20 Net/2000/Wink 2000/Wink 2000/Wink 2000/20 Net/2000/Wink 2000/Wink 2000/Win			-																		
193 Section of Wricks 8-Profestion 16 600 age Wrick 3000000 Wrick 8-Profestion 16 0.00000000000000000000000000000000000																					
0 Organg Compution Date 0 dags Weit / 18622 Not 38623 141 Access date for forton 16 0 dags / 11/1 16622 Not 38623 142 Committee Dustement Forton 16 0 dags / 11/1 16622 Not 38623 143 Peterinal EST due to indement water up to 31 Aly 2022 12 dags / 11/1 16622 Not 485/7 2 144 Complement Wates Public Dustement Konds for al Landscape Schwerts in Section 2 36 dags / 34 dags 2 Section 2 145 Section 2 Wines As - Establishment Wates Public Dustement Schwerts in Section 2 36 dags 34 dags 2 Section 2 146 Organg Complement Dustement Forton 16 0 dags 34 dags 2 Section		•	,																		
4 Access data for Yore 16 0.4eg The 16822 The 16822 42 Construction Duration For Yore 16 378 day The 16822 Web 25802 43 Provide Tor 4 to Inclement web up to 31. My 2027 7 days The 26820 Web 25802 44 Completion Tor 40 to Inclement web up to 31. My 2027 7 days The 26820 Web 25802 45 Section of More 3 N- Labibishiment Work for 841. Indicatege Softwarks in 2 stabibishiment Work for 840.01 0.4eg Soft 34524 8 44524 46 Completion If Web 3 N- Estabibishiment Work for 840.01 0.4eg Soft 34524 8 44524 47 Commensament of Estabibishiment Work for 840.01 0.4eg Soft 34524 8 44524 48 Estabibishiment Work for 840.01 0.4eg Soft 3525 8 44524 49 Completion If 0.4eg Soft 3527 Non 36226 40 Completion If 0.4eg Soft 3525 8 44524 415 Access dath for Yore 17 0.4eg Soft 3527 8 7 87 9527 415 Access dath for Yore 17 0.4eg Soft 3722 8 7 87 957 416 Gorgen Order Wooks P - 26000 ST 0.4eg Soft 3722 8 7 87 957 417 Soft Arge Soft Arge Soft Arge Soft 372 9 49 957 9222 <					_																
120 Conduction Duration for Partice 16 378 days Thus 16822 Wed 28023 Med 28023 143 Funding EDT due to budgers warder up 03 1 July 2022 7 days Thus 26623 Wed 5723 144 Complexed of Modes a Partice 1 0 days faile 4504 Gardino Due 1 0 days faile 4504 145 Section of Works & Faciliabilityment Works for all Landscape Softworks in Section 3 96 days faile 4504 Gardino Due 1 Thus 700000 146 Organiz Completion Mode Note Section 3 0 days faile 4504 Gardino Due 1 Thus 700000 Gardino Due 1 Thus 700000 147 Completion Modes Partice 1 0 days faile 4504 San 4505 San 4505 San 4505 San 4505 148 Estationement of Satellamone Mode Section 3 0 days faile 70220 San 200000 San 4505 San 4505 151 Organiz Completion Mode Section 3 0 days faile 70220 San 200000 San 200000 San 200000 San 200000 San 2000000 San 2000000 San 20000000000 San 2000000000000000000000000000000000000			-																		
143 Padental EOT date to ladement washerup to 31 July 2022 7 daya Tru 26923 Wed 577.3 144 Compliation Wirks in Portion 18 0 daya Sai 452.4 Sai 4452.4 158 Section Of Wirks IA - Establishment Wirks for Saletina Sai 457.8 Sai 457.4 147 Commonancement of Establishment Wirks for Saletina Sai 457.8 Sai 452.4 148 Eatablishment Wirks Landement Wirks for Saletina Sai 457.8 Sai 452.4 147 Commonancement of Establishment Wirks for Saletina Sai 457.8 Sai 452.4 148 Eatablishment Wirks Landement Wirks for Saletina Sai 457.8 Sai 452.4 149 Compliation Wirks a Saiton 8 0 days Sai 452.4 Sai 452.4 151 Compliation Wirks a Saiton 8 0 days Sai 452.2 Nai 452.4 152 Access date for Points 17 0 days Sai 720.22 Nai 720.22 153 Defined Of Wirks A Partian 17 0 days Sai 720.22 Nai 720.22 154 Condition Wirks IA S-Establishment Wirks for al Landscege Saturds is Nai 60.20 Nai 720.22 155 Padenta EOT date In bioment wester up 13 July 202.2 Sa 28 July 20.20 Sa 28 July 20.20 158 Origin Compliato Baite 0 days Sai 28 July 20.20 Sa 28 July 20.20 <td></td>																					
144 Comption of Works 16 Protion 16 0 days Set 46/24 Set 46/24 145 Set con Works 26 - Establishment Works for all Landerge Softworks in Section 3 355 days Set 46/24 Son 40/25 146 Orgina Comption Dale 0 days Thu 27/64 Thu 27/64/24 147 Commonent of Establishment Work for Section 3 0 days Set 46/24 Set 46/24 148 Establishment Work for Section 3 0 days Set 46/24 Set 46/24 148 Comption of Work is Section 3 0 days Set 46/24 Set 46/24 151 Orgina Comption Dale 0 days Set 46/25 Set 2000 152 Access dale Profition T/I 0 days Set 72/22 Non 2022 153 Defined Comption for Notron 17 0 days Set 72/22 Non 2022 154 Comption of Works is Profition 17 0 days Non 27/22 Non 2022 155 Petertion Works is Profition 17 0 days Non 27/22 Non 2024 155 Peterion 17 0 days Non 2024 Non 2024 156 Comption of Works is Profition 17 0 days Non 2024 Non 2024 157 Settion Date Date Not Note Section 13 0 days Non 2024 Non 2024 158	142		-																		
143 Settion f Moris SA - Establishment Work for al Landaccape Softworks in Section 365 days Su 4524 Num 4526 144 Commancement of Establishment Work for Section 3 0 days Num 27824 Num 4526 147 Commancement of Establishment Work for Section 3 0 days Su 4525 Su 4567 148 Establishment Work for Section 3 0 days Su 4525 Su 4567 149 Completion dWorks in Section 3 0 days Su 4525 Su 4567 150 Section of Works 3- Portion 17 710 days Sun 72222 Num 27222 151 Original Completion Duris 0 days Sun 72222 Num 2722 153 Defend postsesson 0 days Sun 7222 Num 2722 Num 2722 Num 2722 153 Defend postsesson 0 days Sun 7222 Num 2722 Num 272																					
de de box of de box de box <thde box<="" th=""> de box de box</thde>		•	-																		
147 Commencement of Establishment Work for Section 3 0 days Sat 4524 Sat 4574 148 Establishment Work for Section 3 365 days Sun 5572 Sun 4575 149 Compelion of Works is Section 3 0 days Sun 4572 Non 387244 150 Section of Works is Section 3 0 days Sun 4572 Non 387244 151 Original Completion Date 0 days Sun 2702 Non 287244 152 Access date for Portion 17 0 days Sun 27022 Non 287244 153 Defender foressin 7 0 days Sun 27022 Non 287244 154 Construction Duration Fortrion 17 0 days Sun 27022 Non 287244 155 Potential ECT dates In identific twather up to 31 July 2022 Non 287244 Non 287244 155 Potential ECT dates In identific twather up to 31 July 2022 Non 287244 Non 287244 156 Completion of Works is Nortion 17 0 days Sun 271244 Non 287244 157 Section of Works is Nortion 17 0 days Sun 2812444 Non 287244 158 Completion of Works is Nortion 17 0 days Sun 2812444 Non 287244 159 Commencement of Establishment Work for Section 9 0 days Sun 2812444		of the Works																			
148 Exabilishment Work Duration for Section 8 365 days Sun 5/5/4 Sun 4/5/5 149 Completion of Works in Section 8 0 days Sun 4/5/5 Sun 4/5/5 150 Section of Works in Section 17 0 days Fin 2/1/2/2 Nan 2/2/2 151 Otigrind Completion of Portion 17 0 days Sun 2/1/2/2 Nan 2/2/2 152 Access date for Portion 17 0 days Sun 2/1/2/2 Sun 2/1/2/2 153 Deferred possession 0 days Sun 2/1/2/2 Sun 2/1/2/2 154 Completion of Portion 17 0 days Sun 2/1/2/2 Sun 2/1/2/2 155 Potential EOT due to Inclement weather up to 31 July 2022 2/2 days Nun 2/1/2/2 Sun 2/1/2/2 156 Completion of Works in Portion 17 0 days Nun 2/1/2/2 Non 2/2/2/4 156 Potential EOT due to Inclement weather up to 31 July 2022 2/2 days Sun 2/1/2/2 Non 2/2/2/4 157 Section of Works in Section 9 0 days Sun 2/1/2/2 Sta 2/1/2/4 159 Commencent of Estabilishment Work for Section 9 0 days Sun 2/1/2/4 Sta 2/1/2/4 159 Commencent of Estabilishment Work for Section 9 0 days Sun 2/1/2/4 Sta 2/1/2/4 159 Commencenent of Estabilishment W			-		_																
10 Completion of Works in Section 8 0.0 days Sun 45/25 Sun 45/25 150 Section of Works in Section 8 0.0 days Sun 45/25 Sun 45/25 151 Original Completion Date 0.0 days Sin 45/25 Sun 45/25 151 Original Completion Date 0.0 days Sin 45/25 Sun 45/25 152 Access date for Pointon 17 0.0 days Sin 27/22 Mon 28/32 153 Defered possession 30 days Sun 27/22 Mon 28/32 154 Construction Duration for Portion 17 671 days Tue 23/022 Sun 28/24 155 Potential EOT due to Inclement weather up to 31 July 2022 29 days Mon 28/24 Mon 28/24 155 Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 365 days Mon 28/24 Tue 25/22 156 Commencement of Establishment Work for Section 9 0.0 days Sun 28/24 Tue 25/22 157 Section of Works 9A - Establishment Work for Section 9 0.0 days Sun 28/24 Tue 25/22 157 Section of Works 9A - Establishment Work for Section 9 0.0 days Sun 28/24 Tue 25/22 158 Commencement of Establishment Work for Section 9 0.0 days Sta 28/124 Yue 25/22 159																					
150 Section of Works 9 - Portion 17 730 days Sun 27/222 Mon 26/224 151 Original Completion Date 0 days Fiz 29/1223 Fi 29/1223 152 Access date for Portion 17 0 days Sun 27/222 Sun 28/1224 153 Defered possession 30 days Sun 27/222 Sun 28/124 154 Completion Date 0 days Sun 27/222 Sun 28/124 155 Potential EOT due to Indement weather up to 31 July 2022 29 days Mon 28/224 Mon 28/224 155 Potential EOT due to Indement weather up to 31 July 2022 29 days Mon 28/224 Mon 28/224 156 Completion Date 0 days Sun 27/224 Tue 25/25 158 Original Completion Date 0 days Sun 28/124 Mon 28/224 159 Commencement of Establishment Works for sall Landscape Softworks in Section 36 days Mon 28/224 Tue 25/25 158 Original Completion Date 0 days Sun 28/124 Mon 28/224 159 Commencement of Establishment Work for Section 9 0 days Mon 28/224 Tue 25/25 158 Original Completion Date 0 days Mon 28/224 Mon 28/224 159 Commencement of Estabilishment Work for Section 9 0 days Mon 28/224 <td></td>																					
No. Original Completion Date O days Fi 29/12/23 Fi 29/12/23 Fi 29/12/23 Su 27/2/22 Su 28/1/2/2 Su 28/1			-													 					
12 Access date for Portion 17 0 days Sun 27/2/2 Sun 27/2/2 153 Deferred possession 30 days Sun 27/2/2 Mon 28/3/2 154 Construction Duration for Portion 17 671 days Tue 29/3/22 Sun 28/1/4 155 Potential EOT due to Inclement weather up to 31 July 2022 29 days Mon 28/1/24 Mon 26/2/4 156 Completion of Works in Portion 17 0 days Sun 28/1/24 Mon 26/2/4 157 Section of Works in Portion 17 0 days Sun 28/1/24 Mon 26/2/4 157 Section of Works for all Landscape Softworks in Section 9 365 days Mon 26/2/4 Tue 25/2/5 158 Original Completion Date 0 days Sun 27/2/2 Mon 26/2/4 159 Commencement of Establishment Work for Section 9 0 days Sun 26/2/4 Mon 26/2/4 159 Commencement of Establishment Work for Section 9 0 days Sun 2/2/2 Mon 26/2/4 159 Commencement of Establishment Work for Section 9 0 days Sun 2/2/2 Mon 26/2/4 159 Commencement of Establishment Work for Section 9 0 days Mon 26/2/4 Mon 26/2/4 150 Establishment Work for Section 9 0 days Mon 26/2/4 Mon 26/2/4 150 Establishment																					
153 Deferred possession 30 days Sun 27/2/2 Mon 28/3/2 154 Construction Duration for Portion 17 671 days Tue 29/3/22 Sun 28/1/24 155 Potential EOT due to Indement weather up to 31 July 2022 29 days Mon 29/1/24 Mon 26/2/24 156 Completion of Works in Portion 17 0 days Mon 26/2/24 Mon 26/2/24 157 Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 365 days Mon 26/2/24 Tue 25/2/5 158 Original Completon Date 0 days Sat 28/12/24 Sat 28/12/24 159 Commencement of Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 0 days Sat 28/12/24 Sat 28/12/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 0 days Tue 27/2/24 Tue 25/2/25																					
154 Construction Duration for Portion 17 671 days Tue 29/3/22 Sur 28/1/24 Mon 26/2/24 155 Potential EOT due to Indement weather up to 31 July 2022 29 days Mon 29/1/24 Mon 26/2/24 Mon 26/2/24 156 Completion of Works in Portion 17 0 days Mon 26/2/24 Mon 26/2/24 Mon 26/2/24 157 Section of Works SA - Establishment Works for all Landscape Softworks in Section 9 365 days Mon 26/2/24 Tue 25/2/55 158 Original Completion Date 0 days Mon 26/2/24 Non 26/2/24 Mon 26/2/24 159 Commencement of Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Tue 25/2/55 160 Establishment Work for Section 9 0 days Mon 26/2/24 Tue 25/2/55 177 Task Contract Task Montation for Section 9 Set Summary Montation for Section 9 Set Summary Montation for Section 9					_																
155 Potential EOT due to Inclement weather up to 31 July 2022 29 day Mon 29/1/24 Mon 28/2/24 156 Completion of Works IP Artion 17 0 day Mon 26/2/24 Mon 28/2/24 157 Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 365 day Mon 26/2/24 Tue 25/2/55 158 Original Completion Dat 0 days Saf 28/12/24 Sat 28/12/24 Sat 28/12/24 159 Commencement Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 Mon 26/2/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 Mon 26/2/24 160 Establishment Work for Section 9 0 days Mon 26/2/24 Tue 25/2/53 160 Establishment Work for Section 9 0 days Mon 26/2/24 Tue 25/2/53 160 Establishment Work for Section 9 0 days Mon 26/2/24 Tue 25/2/53 170 Task Commendered For Based Milesone Summary Summary		-	-		_																
156 Completion of Works in Portion 17 0 days Mon 26/2/4 Mon 26/2/4 157 Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 365 days Mon 26/2/4 Tue 25/2/5 158 Original Completion Date 0 days Sat 28/12/4 Sat 28/12/4 159 Commencement of Section 9 0 days Mon 26/2/4 Mon 26/2/4 160 Establishment Work for Section 9 0 days Tue 25/2/5 160 Establishment Work Duration for Section 9 365 days Tue 25/2/2 170 Task Critical Task (Milescont Polician Po			-																		
157 Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 365 days Non 26/2/24 Tue 25/2/55 158 Original Completion Date 0 days Sat 28/12/24 Sat 28/12/24 159 Commencement of Establishment Work for Section 9 0 days Non 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 0 days Tue 25/2/25 Tue 25/2/24 160 Establishment Work Duration for Section 9 365 days Tue 25/2/24 Tue 25/2/24 160 Establishment Work Duration for Section 9 365 days Tue 25/2/24 Tue 25/2/24			-																		
of the Works of the Works of the Works 158 Original Completion Date 0 days Sat 28/12/24 Sat 28/12/24 159 Commencement of Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 365 days Tue 25/2/25		· · · · · · · · · · · · · · · · · · ·	-																		
159 Commencement of Establishment Work for Section 9 0 days Mon 26/2/24 Mon 26/2/24 160 Establishment Work Duration for Section 9 365 days Tue 25/2/24 Tue 25/2/25		of the Works			_																
160 Establishment Work Duration for Section 9 365 days Tue 27/2/24 Tue 25/2/25 China International Water																					
China International Water Task Critical Task Milestone I Summary																					
	160	Establishment Work Duration for Section 9	365 days Tue 27/2/24	Tue 25/2/25												 					
	China I	nternational Water Task Contical Task	Milestone 🔷	Summary 🔻																	
Indated on: 28 Octt 2022 Page 3 /18																					

	I	E/0	1	March 202	23	10/2	00/0	
2		5/3		12/3		19/3	26/3	

ID	Task Name	Duration Start	Finish			January 202	23					February 2023		
51	Completion of Works in Section 9	0 days Tue 25/2/25	Tue 25/2/25	1/1	 8/1	15	/1	22/1	29/1	5	5/2	12/2	19/2	
51 52	Section of Works 10 - All Tree Protection and Preservation Works	922 days Fri 30/7/21	Tue 6/2/24											
	Original Completion Date	0 days Fri 29/12/23	Fri 29/12/23											
53 34			Fri 30/7/21	_										
64	Commencement of All Tree Protection and Preservation Work All Tree Protection and Preservation Work Duration for Section 10	0 days Fri 30/7/21												
65		883 days Fri 30/7/21	Fri 29/12/23											
66	Potential EOT due to Inclement weather up to 31 July 2022	39 days Sat 30/12/23	Tue 6/2/24											
67	Completion of All Tree Protection and Preservation Work	0 days Tue 6/2/24	Tue 6/2/24											
68	Preliminaries	1341 days Fri 30/7/21	Mon 31/3/25											
69	Establishment of Commercial/Organization	226 days Fri 30/7/21	Sat 12/3/22											
70	Inform Contractor of the name and delegated authorities of the PMD (ER)	7 days Fri 30/7/21	Thu 5/8/21											
71	Confirmation and arrangement of the method of payment	7 days Fri 30/7/21	Thu 5/8/21											
72	Issue forms to CIC& PCFB	14 days Fri 30/7/21	Thu 12/8/21											
73	Submission of MPF form to MPFSA	7 days Fri 30/7/21	Thu 5/8/21											
74	Notification to Labour Department/Marine Department of the commencement date and other details of the contract	7 days Fri 30/7/21	Thu 5/8/21											
75	Submission of Summary Details of Contract to the Departmental Safety and Environment	21 days Fri 30/7/21	Thu 19/8/21	-										
76	Nominate a Labour Officer	7 days Fri 30/7/21	Thu 5/8/21	_										
70 77	Set up Site Liaison Group (SLG)	7 days Fri 30/7/21	Thu 5/8/21											
78	Professional video production company and a competent video director	7 days Fri 30/7/21	Thu 5/8/21	_										
	Surveyor, Key People	7 days Fri 30/7/21	Thu 5/8/21	_										
79 80	Traffic Consultant, Traffic Engineer	7 days Fri 30/7/21	Thu 5/8/21	_										
	Particulars of Independent service provider for Digital Works Supervision System	7 days Fri 30/7/21	Thu 5/8/21	_										
81	Particulars or independent service provider for Digital Works Supervision System Contractor's Management Team	14 days Fri 30/7/21	Thu 5/8/21 Thu 12/8/21											
82	-	-												
83	BIM team	14 days Fri 30/7/21	Thu 12/8/21											
84	Competent member of the sites supervisory staff to oversee and supervise tree works related to arboricultural operations and preservation of trees within the Site	21 days Fri 30/7/21	Thu 19/8/21											
85	Content of Contract Webpage (Monthly update afterwards)	21 days Fri 30/7/21	Thu 19/8/21	_										
86	Particulars of the assigned person (competent member with arboriculture knowledge of	21 days Fri 30/7/21	Thu 19/8/21	_										
	the site supervisory for tree preservation)													
87	Details of Geotechnical monitoring team	21 days Fri 30/7/21	Thu 19/8/21											
88	Design of the CRE Site Office certified by an accepted ICE	30 days Fri 30/7/21	Sat 28/8/21											
89	Design Architect	30 days Fri 30/7/21	Sat 28/8/21											
90	Specially required staff	30 days Fri 30/7/21	Sat 28/8/21											
91	Public Relation Officer	30 days Fri 30/7/21	Sat 28/8/21											
92	Site Safety Committee (SSC) Meeting (monthly afterwards)	30 days Fri 30/7/21	Sat 28/8/21											
93	Meeting of the SSMC (monthly afterwards)	30 days Fri 30/7/21	Sat 28/8/21											
194	Professional Indemnity Insurance in respect of Contractor's Design	60 days Fri 30/7/21	Mon 27/9/21											
195	Proposed gasket material for waterworks	60 days Fri 30/7/21	Mon 27/9/21											
196	7 days advance notice of the date on which workers begin to wear Site uniform; Provide	60 days Fri 30/7/21	Mon 27/9/21											
	uniforms within 5 days after the design is accepted by PM 2 Engineering Graduates 3 Technician	00 dava Eri 20/7/04	Wod 97/10/94	_										
97	2 Engineering Graduates 3 Technician apprentices	90 days Fri 30/7/21	Wed 27/10/21											
98	Commissioning of DWSS	90 days Fri 30/7/21	Wed 27/10/21											
99	Agree on the content and presentation of the dashboard of DWSS	90 days Fri 30/7/21	Wed 27/10/21											
00	Monthly collaboration and information exchange of BIM	90 days Fri 30/7/21	Wed 27/10/21											
201	Combined Services Drawing (CSD) and CBWD generated from BIM model	90 days Fri 30/7/21	Wed 27/10/21											
202	Video script for Project Video Film	180 days Fri 30/7/21	Tue 25/1/22	_										
203	Employment of Construction Industry Council's Graduates (min. 4 graduates)	180 days Fri 30/7/21	Tue 25/1/22	_										
204	Nomination of Treatment process specialist, Design Engineer, and Independent Checking Engineer (ICE)	34 days Fri 1/7/22	Wed 3/8/22											
205	Plan & Proposals	60 days Fri 30/7/21	Mon 27/9/21											
06	Preparation and submission of Noise Mitigation Plan (3 hard copies, 2 electronic copies)	30 days Fri 30/7/21	Sat 28/8/21											
07	Preparation and submission of Waste Management Plan (WMP)	30 days Fri 30/7/21	Sat 28/8/21											
08	Preparation and submission of Draft Construction Health and Safety Plan (3 copies)	7 days Fri 30/7/21	Thu 5/8/21											
09	Preparation and submission of Quality Policy statement and quality plan	7 days Fri 30/7/21	Thu 5/8/21											
210	Preparation and submission of Draft Environmental Management Plan (EMP) 3 copies	4 days Fri 30/7/21	Mon 2/8/21	_										
211	Tender requirements for suppliers of Plant and Materials, Equipment and Insurance Prop	14 days Fri 30/7/21	Thu 12/8/21	_										
212	Preparation of Proposal for arrangement for placement of storage compartments/	14 days Fri 30/7/21	Thu 12/8/21	_										

Updated on: 28 Octt 2022

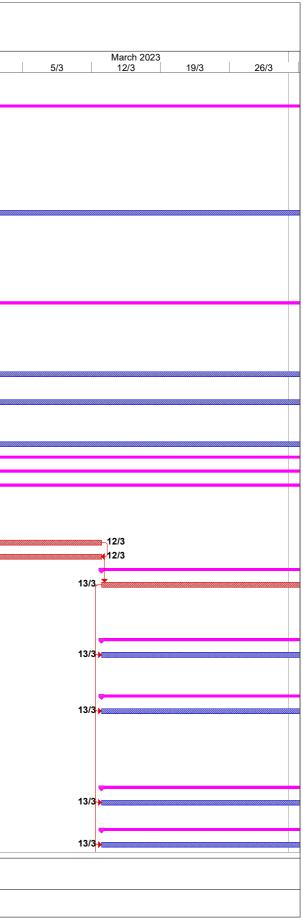
5/3	March 2023 12/3	19/3	26/3	

China Inter	rnational Water & Electric Corp.			Develop	oment of A		CEDD Con Road Quarry S evised Works I		cture, Greer		dscape Work	S							
ID Tas	sk Name	Duration Start	Finish				anuary 2023					February 2					March		
213	Propagation Propagal for sociutive system	14 days Fri 30/7/21	Thu 12/8/21	1/1		8/1	15/1	22	2/1	29/1	5/2	12/2		19/2	26/2	5/3	12/3	19/3	26/3
213	Preparation Proposal for security system Preparation and submission of DWSS proposal	21 days Fri 30/7/21	Thu 19/8/21	_															
214	Preparation and submission of Subcontractor Management Plan (SMP)	21 days Fri 30/7/21	Thu 19/8/21	_															
215	Preparation and submission of Construction Health and Safety Plan (6 copies)	30 days Fri 30/7/21	Sat 28/8/21	_															
210	Weather protection scheme	30 days Fri 30/7/21	Sat 28/8/21																
217	Proposal of COBie information requirements	30 days Fri 30/7/21	Sat 28/8/21																
	Preparation and submission of Final Environmental Management Plan (EMP) 3 copies	30 days Fri 30/7/21	Sat 28/8/21																
219	Preparation and submission of Prinai Environmental Management Plan (EWP) 3 copies Preparation of Proposed Plans for submission of each Release of construction and	30 days Fri 30/7/21	Sat 28/8/21																
220	Project Video Films	50 uays FII 50/7/21	Sal 20/0/21																
221	Preparation and submission of Site Traffic Safety Management Plan (STSMP), (monthly update)	60 days Fri 30/7/21	Mon 27/9/21																
222	Preparation and submission of Site Management Plan for TTS	60 days Fri 30/7/21	Mon 27/9/21																
223	Preparation and submission of BIM Execution Plan accordance with the PSA 1.14D	60 days Fri 30/7/21	Mon 27/9/21																
224	Public Relation (PR) Company, PR plan	60 days Fri 30/7/21	Mon 27/9/21																
225	Preparation and submission of Temporary drainage management plan	7 days Fri 30/7/21	Thu 5/8/21																
226 P	Procurements of Major Materials	430 days Tue 15/2/22	Thu 20/4/23																
227	Procurement & material submission of bearing for elevated walkway	90 days Thu 26/5/22	Tue 23/8/22																
228	Design, manufacturing and FAT of bearing for elevated walkway	90 days Wed 24/8/22	Mon 21/11/22																
229	Deliveries and site inspection of bearing for elevated walkway etc.	60 days Tue 22/11/22	Fri 20/1/23					20/1											
230	Procurement & material submission of movement joinst for elevated walkway	90 days Wed 24/8/22	Mon 21/11/22																
231	Design, manufacturing and FAT of movement joinst for elevated walkway	90 days Tue 22/11/22	Sun 19/2/23											9/2					
232	Deliveries and site inspection of movement joinst for elevated walkway etc.	60 days Mon 20/2/23	Thu 20/4/23										20/2 📩						
233	Procurement of Raise Planter Type A&B	90 days Tue 15/2/22	Sun 15/5/22																
234	Manufacturing, FAT & delivery of Raise Planter Type A&B	90 days Mon 16/5/22	Sat 13/8/22	_															
235	Procurement of Balustrade Wall BW1-2	90 days Sat 3/9/22	Thu 1/12/22																
236	Manufacturing, FAT & delivery of Balustrade Wall BW1-2	90 days Fri 2/12/22	Wed 1/3/23												1/3				
237	Procurement of Children Play Areas & water play area Park Facilities	90 days Thu 26/5/22	Tue 23/8/22																
238	Design, Manufacturing, FAT & delivery of Children Play Areas & water play area Park Fa		Mon 21/11/22																
239	Procurement of Adult fitness Area Park Facilities	90 days Thu 26/5/22	Tue 23/8/22																
240	Design Manufacturing, FAT & delivery of Adult fitness Area Park Facilities	90 days Wed 24/8/22	Mon 21/11/22																
241	Procurement of Elderly fitness Area Park Facilities	90 days Thu 26/5/22	Tue 23/8/22																
242	Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities	90 days Wed 24/8/22	Mon 21/11/22																
	Programme	1332 days Fri 30/7/21	Sat 22/3/25																
244	Preparation & Submission of First Works Program	6 days Fri 30/7/21	Wed 4/8/21																
245	Preparation & Submission of Three Months Rolling Program	14 days Fri 30/7/21	Thu 12/8/21																
246	Program Review and Acceptance of First Program	14 days Thu 5/8/21	Wed 18/8/21																
247	Preparation and Submission of Detailed Works Program	60 days Thu 19/8/21	Sun 17/10/21																
248	Program Review and Acceptance of Works Program	14 days Mon 18/10/21	Sun 31/10/21																
249	Implementation of Programme Management and Monthly Reporting	1238 days Mon 1/11/21	Sat 22/3/25																
	Permit and Licences	60 days Fri 30/7/21	Mon 27/9/21																
250	Detailed construction sequences with associated traffic diversion schemes and obtain endorsement in principle from the relevant authorities and the Supervisor	30 days Fri 30/7/21	Sat 28/8/21																
252	Risk Assessment for slope works	7 days Fri 30/7/21	Thu 5/8/21	_															
253	Welfare facilities for workers in accordance with requirements in PS Clause 1.69B	7 days Fri 30/7/21	Thu 5/8/21	-															
254	UU detection equipment brand/model	7 days Fri 30/7/21	Thu 5/8/21	-															
255	Certified calibration certificates	7 days Fri 30/7/21	Thu 5/8/21																
256	Contract Computer Facilities, Electronic Document Management System, Site Record Information System, Digital Works Supervision System and other software	6 days Fri 30/7/21	Wed 4/8/21																
257	Name of the designated bank and all related arrangement details for payment of wages to all the Site Workers	6 days Fri 30/7/21	Wed 4/8/21																
258	Site Cleanliness and Tidiness	7 days Fri 30/7/21	Thu 5/8/21																
259	3 sets of coloured record photos in SR size (recording existing building/ street furniture		Thu 5/8/21	-															
260	Contract Cars	7 days Fri 30/7/21	Thu 5/8/21																
261	Design of uniform for site workers	7 days Fri 30/7/21	Thu 5/8/21	-															
262	Survey Equipment for Initial survey	7 days Fri 30/7/21	Thu 5/8/21	-															
263	Inclinometer access tubes - suppliers, material specification and samples of the tubes and couplings	14 days Fri 30/7/21	Thu 12/8/21	_															
264	Payment of Wages System for Site Workers	14 days Fri 30/7/21	Thu 12/8/21															 	
China Inter Electric Co	rnational Water Task Critical Task Critical Task	Milestone 🔷	Summary 🔻																
Indated on	n: 28 Octt 2022							Page 5 /18											

ID	Task Name	Duration Start	Finish			January			14	1	00/4		February 2023		
	Tree survey record	14 days Fri 30/7/21	Thu 12/8/21	1/1	8/1		15/1	22	/1		29/1	29/1 5/2	29/1 5/2 12/2	29/1 5/2 12/2	29/1 5/2 12/2 19/2
65 66	Supply of Survey Equipment for PM use	30 days Fri 30/7/21	Sat 28/8/21												
67	Complete setting up and begin to operate the Security System	60 days Fri 30/7/21	Mon 27/9/21												
3	Initial Survey	60 days Fri 30/7/21	Mon 27/9/21												
269	Assessment for the risk resulting from working in hot weather	60 days Fri 30/7/21	Mon 27/9/21												
270	Contractor's Design	243 days Fri 1/7/22	Tue 28/2/23												
271	Architectural & Structural	130 days Fri 1/7/22	Mon 7/11/22												
72	Prepare & Submission	31 days Fri 1/7/22	Sun 31/7/22												
273	Internal Review & Submission	15 days Mon 1/8/22	Mon 15/8/22												
274	PM Review & AIP	16 days Tue 16/8/22	Wed 31/8/22												
75	Re-submission	30 days Thu 1/9/22	Fri 30/9/22												
276	Design Checker Review & Endorsement	7 days Sat 1/10/22	Fri 7/10/22												
277	DDA Submission (circulation to Government Authorities)	8 days Sat 8/10/22	Sat 15/10/22												
278	Time risk allowance for DDA processing	7 days Sun 16/10/22	Sat 22/10/22												
279	Vetting Process and Approval by Government Authorities and PM	9 days Sun 23/10/22	Mon 31/10/22												
280	Design Checker issue certificate of Approved Design	7 days Tue 1/11/22	Mon 7/11/22	_											
81	Toilet , Management office & Store room	123 days Fri 1/7/22	Mon 31/10/22	_											
282	Prepare	31 days Fri 1/7/22	Sun 31/7/22	_											
83	Internal review, ICE, CSD and submission AIP	31 days Mon 1/8/22	Wed 31/8/22	_											
284		61 days Thu 1/9/22	Mon 31/10/22												
285	Underground Water Treatment Plant	123 days Fri 1/7/22	Mon 31/10/22 Sun 31/7/22												
286	Prepare Internal review, ICE, CSD and submission	31 days Fri 1/7/22	Wed 31/8/22												
287	AIP	31 days Mon 1/8/22 61 days Thu 1/9/22	Mon 31/10/22												
288	Entry Portal, Shelters, Signage, Solar Panels & Associated System etc.	123 days Fri 1/7/22	Mon 31/10/22												
289 290	Prepare	31 days Fri 1/7/22	Sun 31/7/22												
290	Internal review, ICE, CSD and submission	31 days Mon 1/8/22	Wed 31/8/22												
291	AIP	61 days Thu 1/9/22	Mon 31/10/22												
292	Park lighting, irrigation system, smart system etc.	123 days Fri 1/7/22	Mon 31/10/22												
294	Prepare	31 days Fri 1/7/22	Sun 31/7/22												
295	Internal review, ICE, CSD and submission	31 days Mon 1/8/22	Wed 31/8/22												
296	AIP	61 days Thu 1/9/22	Mon 31/10/22												
297	Covered walkway	120 days Tue 1/11/22	Tue 28/2/23	_											
298	Prepare	30 days Tue 1/11/22	Wed 30/11/22												
299	Internal review, ICE, CSD and submission	31 days Thu 1/12/22	Sat 31/12/22	31/12											
300	AIP	59 days Sun 1/1/23	Tue 28/2/23	•											
301	Contractor's Design [Enhancement on Architectural Design & Associated Works]	273 days Tue 1/2/22	Mon 31/10/22												
302	Proposal of proposed architects firm & quotation for acceptance of the Project Manager	120 days Tue 1/2/22	Tue 31/5/22												
303	Prepare & Submission Preliminary Arch., Design	61 days Wed 1/6/22	Sun 31/7/22												
304	PM Review & AIP Preliminary Architectural Design	15 days Mon 1/8/22	Mon 15/8/22												
305	Vetting of design through public engagement activities	16 days Tue 16/8/22	Wed 31/8/22	-											
06	Submission of design to DSD, LCSD and other authorities for vetting and acceptance	21 days Thu 1/9/22	Wed 21/9/22												
307	Preparation & submission of detailed design for approval	26 days Thu 22/9/22	Mon 17/10/22												
308	Time risk allowance for DDA processing	7 days Tue 18/10/22	Mon 24/10/22												
309	Approval of detailed design	7 days Tue 25/10/22	Mon 31/10/22												
310	Method Statements & Temporary Works	120 days Fri 30/7/21	Fri 26/11/21												
311	Prepartion & submission of generic method statement for site formation work	60 days Fri 30/7/21	Mon 27/9/21												
312	Preparation & submission of generic method statement for earth slope works	60 days Fri 30/7/21	Mon 27/9/21												
313	Preparation & submission of generic method statement for retaining wall construction	60 days Fri 30/7/21	Mon 27/9/21												
314	Preparation & submission of generic method statement for G.I works	60 days Fri 30/7/21	Mon 27/9/21												
315	Preparation & Submission of generic method statement for drainage works	60 days Fri 30/7/21	Mon 27/9/21												
316	Preparation and submission of generic method statement of road works	60 days Fri 30/7/21	Mon 27/9/21												
317	Preparation & submission of generic method statement of elevated walkway construction	120 days Fri 30/7/21	Fri 26/11/21												
18	Temporary Work for cut/fill slope works	60 days Fri 30/7/21	Mon 27/9/21												
19	Temporary Work for retaining wall construction	60 days Fri 30/7/21	Mon 27/9/21												

5/3	March 2023 12/3	19/3	26/3

ID	Task Name	Duration Start	Finish	1/1		8/1	January 20	23 5/1	1	22/1		29/1		5/2	ry 2023 2/2	19/2		2
320	Temporary Work for elevated walkway construction	60 days Fri 30/7/21	Mon 27/9/21			0/1		0/1	_			20/1		0/2		10/2		
21	Temporary Work for road and drainage works	60 days Fri 30/7/21	Mon 27/9/21															
22	BIM Deliverable	1341 days Fri 30/7/21	Mon 31/3/25															-
23	Submission of COBie Information Requirements for Asset Management	30 days Fri 30/7/21	Sat 28/8/21															
24	Submission of BIM Execution Plan in accordance with the PS Appendix 1.14D	60 days Fri 30/7/21	Mon 27/9/21															
25	Submission of Combined Services Drawings	90 days Fri 30/7/21	Wed 27/10/21															
6	Submission of proposal for BIM training plan	90 days Fri 30/7/21	Wed 27/10/21	_														
27	Nomination of staff or subcontractor to attend BIM skill training courses under the pre approved list of the CITF managed by the CIC	120 days Fri 30/7/21	Fri 26/11/21															
28	Collaboration and Model Sharing	60 days Thu 28/10/21	Sun 26/12/21	-														
29	Monthly Coordination meeting & Submission of monthly BIM progress reports & Submission of 4D Simulation	1191 days Mon 27/12/21	Mon 31/3/25															
30	Submission of COBie data deliverables	30 days Fri 31/1/25	Sat 1/3/25															
31	Submission of a Fully Coordinated BIM Model with field verified in LOD 500	30 days Tue 18/2/25	Wed 19/3/25															
32	Submission of O&M Manuals, Product Catalogues and Operating Data	30 days Tue 18/2/25	Wed 19/3/25															
33	Submission of As-built drawings	30 days Tue 18/2/25	Wed 19/3/25															
34	Submission of Asset Data	30 days Tue 18/2/25	Wed 19/3/25															
35	Work Area	1341 days Fri 30/7/21	Mon 31/3/25															_
36	CRE Site Office Design & ICE Endorsement	30 days Fri 30/7/21	Sat 28/8/21															
37	CRE Site office Design Review and Acceptance	30 days Sun 29/8/21	Mon 27/9/21															
38	CRE Site office Construction Works	90 days Tue 28/9/21	Sun 26/12/21															
39	Completion of CRE Site office Construction Works	0 days Mon 24/1/22	Mon 24/1/22															
40	CRE Site office Mobilization & Maintenance	1143 days Mon 24/1/22	Tue 11/3/25															
1	Access for Works Area	0 days Fri 30/7/21	Fri 30/7/21	_														
2	Maintenance Duration for Works Area	1340 days Sat 31/7/21	Mon 31/3/25															
3	Vacate / Handover Works Area	0 days Mon 31/3/25	Mon 31/3/25	_														
14 15	Setting up Contractor's Project office Contractor Site office Maintenance	90 days Tue 28/9/21 1143 days Mon 24/1/22	Sun 26/12/21 Tue 11/3/25															
45 16	Construction Works	1454 days Thu 29/4/21	Sun 4/5/25	_														
46 47	Section of Works 1 - Portions 1a, 2a, 2b	1055 days Thu 29/4/21	Sun 31/3/24	_														
+7 18	Portion 1a	1055 days Thu 29/4/21	Sun 31/3/24	_														
19	Provision of site access [273 days after starting date as per Contract]	0 days Thu 29/4/21	Thu 29/4/21	_														
0	Engagement of Design Architectural Firm (PMI 003)	0 days Fri 14/1/22	Fri 14/1/22	_														
1	Preparation& submission of MS, Temp works, associated plans & docs	50 days Sun 1/1/23	Sun 19/2/23													19/2		
2	Engineer's AIP of MS, Temp works, plans& associated docs	21 days Mon 20/2/23	Sun 12/3/23	-											20/2			
3	Mobilization & Site Clearance	14 days Mon 27/2/23	Sun 12/3/23														27/2 🔤	
4	Drainage pipe and manhole	161 days Mon 13/3/23	Sun 20/8/23	-														
5	Excavation	108 days Mon 13/3/23	Wed 28/6/23	-														
6	Pipe laying	109 days Wed 19/4/23	Sat 5/8/23															
7	CCTV inspection, testing and commissioning	15 days Sun 6/8/23	Sun 20/8/23															
58	Time Risk Allowance	14 days Mon 21/8/23	Sun 3/9/23															
59	Watermain	141 days Mon 13/3/23	Mon 31/7/23															
0	Excavation	108 days Mon 13/3/23	Wed 28/6/23															
1	Pipe laying	90 days Wed 19/4/23	Mon 17/7/23															
2	Testing and commissioning	14 days Tue 18/7/23	Mon 31/7/23															
3	Sewage	141 days Mon 13/3/23	Mon 31/7/23															
64	Excavation	108 days Mon 13/3/23	Wed 28/6/23															
65	Pipe laying	90 days Wed 19/4/23	Mon 17/7/23															
6	Testing and commissioning	14 days Tue 18/7/23	Mon 31/7/23															
67	Backfilling and compaction of materials, landscape wall, edge, soil placement, U channel & catch pit, shelters, stairs, seat, railing and pavement installation etc.	120 days Mon 4/9/23	Mon 1/1/24															
8	Soft landscaping works	90 days Tue 2/1/24	Sun 31/3/24	_														
	Irrigation system	120 days Mon 13/3/23	Mon 10/7/23															
9	Application for water supply	30 days Mon 13/3/23	Tue 11/4/23	-														
	Installation	90 days Wed 12/4/23	Mon 10/7/23															
9 0 1			E-: 0/0/22															
0	Lighting	180 days Mon 13/3/23	Fri 8/9/23															
0 1	Lighting Application for electricity power supply	180 days Mon 13/3/23 120 days Mon 13/3/23	Mon 10/7/23	_														



ID	Task Name	Duration Start	Finish		1	January					
374	Installation including ducting and draw pit	150 days Mon 13/3/23	Wed 9/8/23	1/1	8/1	1	15/1	2	22/1	29/1	5/2
375	Energization	15 days Thu 10/8/23	Thu 24/8/23	_							
376	Testing and Commissioning of lighting	15 days Fri 25/8/23	Fri 8/9/23	_							
377	DOS - Play Area Design (cum PR Enhancement)	616 days Mon 25/7/22	Sun 31/3/24	_							
378	DOS Play Area Design Proposal	22 days Mon 25/7/22	Mon 15/8/22	_							
379	Play Area Enhancement Design	31 days Mon 1/8/22	Wed 31/8/22	_							
380	Engagement of Park Facilities Supplier/Specialist	31 days Mon 1/8/22	Wed 31/8/22								
381	Submission of Play Area Proposal to LCSD	15 days Thu 1/9/22	Thu 15/9/22								
382	Submisiion of Play Area Engagement/PR Event Proposal	15 days Fri 16/9/22	Fri 30/9/22								
383	Vetting by Departments	31 days Sat 1/10/22	Mon 31/10/22								
384	Preparation of Events	30 days Tue 1/11/22	Wed 30/11/22								
385	Engagement/PR Events	31 days Thu 1/12/22	Sat 31/12/22	31/12							
386	Finalization of DOS Play Area Design	31 days Sun 1/1/23	Tue 31/1/23	*						31/1	
387	LCSD Endorsement	14 days Wed 1/2/23	Tue 14/2/23							1/2	
388	Shop Drawing	14 days Wed 15/2/23	Tue 28/2/23								
389	Order & Production of Play Equipment	182 days Wed 15/2/23	Tue 15/8/23								
390	DOS - Construction - Civil Work and hard landscape	184 days Wed 1/3/23	Thu 31/8/23								
391	Installation of Safety Mat & Play Equipment	122 days Fri 1/9/23	Sun 31/12/23								
392	Certification & Handover	91 days Mon 1/1/24	Sun 31/3/24	_							
393	Portion 2a	945 days Mon 30/8/21	Sun 31/3/24								
394	Provision of site access [31 days after starting date as per Contract]	0 days Mon 30/8/21	Mon 30/8/21								
395	Mobilization & Site Clearance	14 days Tue 7/9/21	Mon 20/9/21								
396	Preparation & submission of MS, Temp.works, associated plans & docs	51 days Tue 21/9/21	Wed 10/11/21								
397	Engineer's AIP of MS, Temp works, plans & associated docs	21 days Thu 11/11/21	Wed 1/12/21	_							
398	Time Risk Allowance	24 days Fri 14/1/22	Sun 6/2/22	_							
399	Lake Park - Enhancement Design	640 days Fri 1/7/22	Sun 31/3/24	_							
400	Schematic Landscape Master (LMP)	77 days Fri 1/7/22	Thu 15/9/22	_							
401	Draft 1 -LMP with building footprint	7 days Fri 1/7/22	Thu 7/7/22	_							
402	Draft 2 - LMP with building layout, EVA, Schedule of Accommocation (SOA) Draft 3 - LMP with landscape features (fence wall, shether, furniture, railing,	8 days Fri 8/7/22 8 days Sat 16/7/22	Fri 15/7/22 Sat 23/7/22								
403	View deck with BFA ramp etc.)	0 uays 3al 10/1/22	Jai 23/1122								
404	Final Draft - LMP with Water Play design, Prelim MEP	8 days Sun 24/7/22	Sun 31/7/22								
405	Revision of Urban forest Layout	8 days Sat 16/7/22	Sat 23/7/22								
406	Finalization - Urban Forest Layout	8 days Sun 24/7/22	Sun 31/7/22								
407	Review by CEDD	24 days Fri 8/7/22	Sun 31/7/22								
408	Circlation LMP to DSD for comment	15 days Mon 1/8/22	Mon 15/8/22								
409	LMP Finalzation	46 days Mon 1/8/22	Thu 15/9/22								
410	Design AIP, GBP & Approval	92 days Mon 1/8/22	Mon 31/10/22	_							
411	Design Package 1 - Building Design	46 days Mon 1/8/22	Thu 15/9/22								
412	Design Package 2 - Shelter, Fence Wall, Railing, decking	46 days Mon 1/8/22	Thu 15/9/22								
413	Design Package 3 - Structural	46 days Mon 1/8/22	Thu 15/9/22	_							
414	Design Package 4 - MEP	46 days Mon 1/8/22	Thu 15/9/22								
415	Bi-weekly Review by CEDD	40 days Sun 7/8/22	Thu 15/9/22								
416	Aip/Circulation to DSD for comment	23 days Thu 1/9/22	Fri 23/9/22								
417	GBP Preparation & Submission	45 days Thu 1/9/22	Sat 15/10/22								
418	ICE Approval FSD Approval	16 days Sun 16/10/22 16 days Sun 16/10/22	Mon 31/10/22 Mon 31/10/22								
419	Construction Drawing (CD)	61 days Tue 1/11/22	Sat 31/12/22	_							
420 421	CD package 1 - Architectural	61 days Tue 1/11/22	Sat 31/12/22 Sat 31/12/22	31/12							
421	CD package 1 - Architectural CD package 2 - Structural	61 days Tue 1/11/22	Sat 31/12/22 Sat 31/12/22	31/12							
422	CD package 3 - MEP	61 days Tue 1/11/22	Sat 31/12/22	31/12							
423	CD package 4 - Landscape	61 days Tue 1/11/22	Sat 31/12/22	31/12							
425	CD package 5 - Details	61 days Tue 1/11/22	Sat 31/12/22	31/12							
426	Shop Drawing	181 days Tue 1/11/22	Sun 30/4/23								
420	Shop Drawing & Material submission	181 days Tue 1/11/22	Sun 30/4/23								
428	Construction	517 days Tue 1/11/22	Sun 31/3/24								

	5/3	12/2	March 202 12/3	19/3	26/3	
		10/0				
2						

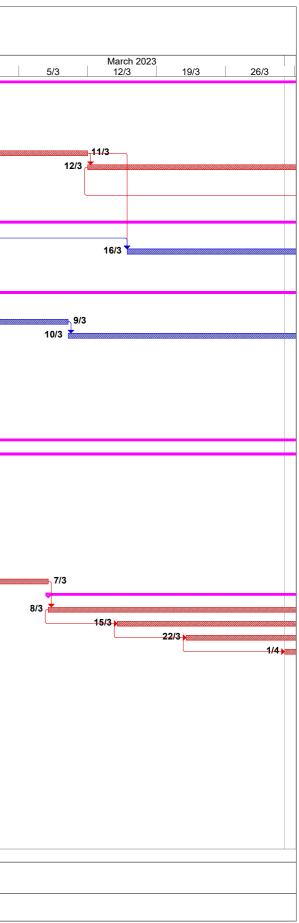
				Develop	oment of A			arry Site /orks Pro				g and Lan	dscape Wo	orks							
D Ta	sk Name	Duration Start	Finish	1/1	1	8/1	January 2	2023 15/1		22/1		29/1	5/2		ebruary 202 12/2	19/2	1	26/2		5/3	 March 12/3
29	Footing & foundation (buildings,sheltders, fence wall & viewing deck)	181 days Wed 16/11/22	Mon 15/5/23	1/1		0/1		13/1	2	2/1		29/1	3/2	·	12/2	19/2		20/2			12/3
30	Laying of UU & Civil Works	181 days Wed 16/11/22	Mon 15/5/23																		
31	Super structure (Entry Portal, Water Treatment Plant, Function Rm, Toilets)	425 days Wed 1/2/23	Sun 31/3/24	_							1/2	•									
32	Building Facade (Entry Portal, Water Treatment Plant, Function Rm, Toilets)	214 days Thu 1/6/23	Sun 31/12/23	_								L									
33	Shethers	184 days Tue 16/5/23	Wed 15/11/23	_																	
34	Boundary fence wall	184 days Tue 16/5/23	Wed 15/11/23																		
35	MEP	321 days Tue 16/5/23	Sun 31/3/24	_																	
36	Water Play installation	183 days Sun 1/10/23	Sun 31/3/24	_																	
37	Interior	183 days Sun 1/10/23	Sun 31/3/24	_																	
38	T&C	183 days Sun 1/10/23	Sun 31/3/24	_																	
39	Hard Landscape (Planter ,bioswale, boardwalk, wetland, soil cell, paving, etc)	427 days Thu 1/12/22	Wed 31/1/24																		
		-	Wed 31/1/24																		
40	Landscape lighting	184 days Tue 1/8/23																			
41	Application for electricity power supply	120 days Tue 1/8/23	Tue 28/11/23																		
42	Installation	154 days Tue 1/8/23	Mon 1/1/24	_																	
43	Energization	15 days Tue 2/1/24	Tue 16/1/24																		
44	Testing and commissioning	15 days Wed 17/1/24	Wed 31/1/24																		
45	Irrigation system	120 days Wed 4/10/23	Wed 31/1/24																		
46	Application for water supply	30 days Wed 4/10/23	Thu 2/11/23																		
47	Installation	90 days Fri 3/11/23	Wed 31/1/24																		
48	Soft Landscape (Lake Island, Lake side and riparian planting) (In planting seaso	61 days Tue 1/8/23	Sat 30/9/23																		
49	Soft Landscape (Trees and "flower sea") (In planting seasons)	60 days Thu 1/2/24	Sun 31/3/24																		
50	Nursery for Trees and Flower sea"	457 days Tue 1/11/22	Wed 31/1/24																		
51	Preparation of O&M Manual	184 days Wed 1/3/23	Thu 31/8/23	_													1/:	3			
52	As-built drg/model	182 days Mon 2/10/23	Sun 31/3/24																		
53	Portion 2b	832 days Tue 14/12/21	Sun 24/3/24															<u> </u>			
54	Provision of site access [137 days after starting date as per Contract]	7 days Tue 14/12/21	Mon 20/12/21	_																	
55	Mobilization & Site Clearance	16 days Tue 21/12/21	Wed 5/1/22	_																	
56	Preparation & submission of MS, Temp works, associated plans & docs	51 days Tue 14/12/21	Wed 2/2/22																		
57	Engineer's AIP of MS, Temp., works, plans & associated docs	22 days Thu 3/2/22	Thu 24/2/22	_																	
58	Artificial Lake Island	243 days Mon 1/8/22	Fri 31/3/23																		
59	Gabion wall	80 days Mon 1/8/22	Wed 19/10/22	_																	
60	Placement of boulder	90 days Thu 1/12/22	Tue 28/2/23													 		28/2			
61	Soil Placement	60 days Sun 1/1/23	Wed 1/3/23	—														1/3			
	Soft landscaping	30 days Thu 2/3/23	Fri 31/3/23													 		2/3	·		
62	Water leakage test within the lake by others	42 days Thu 20/10/22	Wed 30/11/22	_														2/3			
63																					
64	Artificial lake	541 days Sat 1/10/22	Sun 24/3/24																		
65	Granite stone facing	211 days Sat 1/10/22	Sat 29/4/23															—			
66	Mock up	15 days Sat 1/10/22	Sat 15/10/22	_																	
67	Installation	150 days Thu 1/12/22	Sat 29/4/23															_			
68	Time Risk Allowance	15 days Sun 30/4/23	Sun 14/5/23																		
69	Construction of pavers for viewing steps	110 days Wed 1/3/23	Sun 18/6/23														1/3	3			
70	Construction of pavers for viewing deck A	110 days Mon 19/6/23	Fri 6/10/23																		
71	Construction of pavers for viewing deck B	95 days Sat 7/10/23	Tue 9/1/24																		
72	Construction of pavers for timber decking	55 days Wed 10/1/24	Mon 4/3/24																		
73	Soft landscaping works (soil placement and planting works) for Riparian zone A	80 days Wed 1/3/23	Fri 19/5/23														1/3	3			
74	Soft landscaping works (soil placement and planting works) for Riparian zone B	120 days Sat 20/5/23	Sat 16/9/23																		
75	Soft landscaping works (soil placement and planting works) for Riparian zone C	120 days Sun 17/9/23	Sun 14/1/24																		
76	Soft landscaping works (other works) for Riparian zone C	70 days Mon 15/1/24	Sun 24/3/24	_																	
77	Nursery for Plantings	365 days Thu 1/12/22	Thu 30/11/23																		
78	Lighting	184 days Tue 1/8/23	Wed 31/1/24	_																	
79	Application for electricity power supply	120 days Tue 1/8/23	Tue 28/11/23	_																	
80	Installation including ducting	154 days Tue 1/8/23	Mon 1/1/24	_																	
81	Energization	15 days Tue 2/1/24	Tue 16/1/24	_																	
82	Testing and Commissioning of lighting	15 days Wed 17/1/24	Wed 31/1/24	_																	
	Section of Works 1A - Establishment Works for all Landscape Softworks in Section 1	-	Mon 31/3/25																		
	of the Works	505 uays 5ull 51/3/24	mon 5 //J/LJ																		
			-																		
iina Inte ectric Co	ernational Water Task Critical Task Critical Task	🚃 Milestone 🔷	Summary 🔻																		
	n: 28 Octt 2022							Pa	ge 9 /18							 					

2	March 2023 6/2 5/3 12/3 19/3 26/3	
8		
8		
8		
		,
	28/2	
8	1/3 3	3
	-	Ū
8		
8		
		_

	Task Name	Duration Start	Finish	1/1	I	8/1	January 20	23 5/1	21	2/1		29/1	I	5/2	February 12/		19/2	I	26/
84	Commencement of Establishment Work for Section 1	0 days Sun 31/3/24	Sun 31/3/24	1/1		0/1		5/1		2/1	2	29/1		5/2	12/	2	19/2		_20/
85	Establishment Work Duration for Section 1	365 days Mon 1/4/24	Mon 31/3/25																
36	Completion of Works in Section 1	0 days Mon 31/3/25	Mon 31/3/25																
87	Section of Works 2 - Portion 8	769 days Fri 30/7/21	Wed 6/9/23																+
88	Portion 8	769 days Fri 30/7/21	Wed 6/9/23																
89	Provision of site access [on starting date as per Contract]	7 days Fri 30/7/21	Thu 5/8/21																
90	Mobilization& Site Clearance	14 days Fri 6/8/21	Thu 19/8/21																
91	Preparation & submission of MS, Temp works, associated plans & docs	52 days Fri 20/8/21	Sun 10/10/21																
92	Engineer's AIP of MS, Temp works, plans& associated docs	22 days Mon 11/10/21	Mon 1/11/21																
93	Drainage pipe and manhole	394 days Tue 2/11/21	Wed 30/11/22																
94	Excavation	364 days Tue 2/11/21	Mon 31/10/22																
95	Pipe laying	344 days Tue 7/12/21	Tue 15/11/22																
96	CCTV inspection, testing and commissioning	15 days Wed 16/11/22	Wed 30/11/22																
97	Time Risk Allowance	14 days Thu 1/12/22	Wed 14/12/22																
98	Backfilling and compaction of materials, landscape wall, edge, soil placement, U channel & catch pit, shelters, stairs, seat, railing and pavement installation etc.	266 days Thu 15/12/22	Wed 6/9/23																
99	Soft landscaping works	120 days Wed 10/5/23	Wed 6/9/23																
00	Installation of park facilities	60 days Fri 9/6/23	Mon 7/8/23																
01	Retainning Wall	277 days Mon 10/10/22	Thu 13/7/23																4
02	Excavation and temporary shoring	90 days Mon 10/10/22	Sat 7/1/23		7/1														
03	Blinding layer	80 days Tue 1/11/22	Thu 19/1/23	_				19/1	I										
04	Base slab	84 days Fri 11/11/22	Thu 2/2/23										2/2						
05	Wall stem	90 days Fri 25/11/22	Wed 22/2/23														 2:	2/2	
06	Backfilling	21 days Thu 23/2/23	Wed 15/3/23														23/2 📩		_
07	Handrailing	30 days Wed 14/6/23	Thu 13/7/23																
08	RC staicase at retaining wall	21 days Thu 23/2/23	Wed 15/3/23	_													23/2 📥		_
09	Irrigation system	180 days Sun 1/1/23	Thu 29/6/23																+
10	Application for water supply	30 days Sun 1/1/23	Mon 30/1/23									30/1							
11	Installation	150 days Tue 31/1/23	Thu 29/6/23	_						:	31/1 📩								
12	Lighting	180 days Wed 1/2/23	Sun 30/7/23																-
13	Application for electricity power supply	120 days Wed 1/2/23	Wed 31/5/23	_							1/2								
14	Installation including ducting and draw pit	150 days Wed 1/2/23	Fri 30/6/23								1/2								
15	Energization	15 days Sat 1/7/23	Sat 15/7/23																
16	Testing and Commissioning of lighting	15 days Sun 16/7/23	Sun 30/7/23																
17	Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works	365 days Wed 6/9/23	Thu 5/9/24																
18	Commencement of Establishment Work for Section 2	0 days Wed 6/9/23	Wed 6/9/23																
19	Establishment Work Duration for Section 2	365 days Thu 7/9/23	Thu 5/9/24																
20	Completion of Works in Section 2	0 days Thu 5/9/24	Thu 5/9/24	_															
21	Section of Works 3 - Portions 1b, 3, 4, 5	770 days Fri 30/7/21	Thu 7/9/23	_															
22	Portion 1b	283 days Tue 29/11/22	Thu 7/9/23																_
23	Provision of site access [487 days after starting date as per Contract]	7 days Tue 29/11/22	Mon 5/12/22	_															
24	Mobilization& Site Clearance	14 days Tue 6/12/22	Mon 19/12/22																
25	Excavation and Construction of Sewerage line	120 days Wed 1/2/23	Wed 31/5/23	_							1/2	 							
26	CCTV inspection, testing and commissioning of sewerage Line	14 days Wed 17/5/23	Tue 30/5/23	_															
27	Excavation and Construction of Waterlines for treated water & flushing water	125 days Wed 1/2/23	Mon 5/6/23								1/2	-							
28	Testing and Commissioning of Waterlines for treated water and flushing water	14 days Sat 20/5/23	Fri 2/6/23	_															
29	Time Risk Allowance	7 days Sat 3/6/23	Fri 9/6/23	_															
30	Backfilling and compaction of materials	30 days Sat 10/6/23	Sun 9/7/23																
31	Construction of pavers	60 days Mon 10/7/23	Thu 7/9/23	_															
32	Llighting	120 days Sat 11/3/23	Sat 8/7/23	_															
33	Application for electricity power supply	120 days Sat 11/3/23	Sat 8/7/23	_															
34	Installation including ducting and draw pit	90 days Sat 11/3/23	Thu 8/6/23	_															
35	Energization	15 days Fri 9/6/23	Fri 23/6/23																
36	Testing and Commissioning	15 days Sat 24/6/23	Sat 8/7/23	_															
37	Soft landscape works (installation of pot planters)	50 days Mon 10/7/23	Mon 28/8/23	_															
																			_
no la	nternational Water Task Critical Task	Milestone	Summary																_
	nternational Water Task Critical Task Critical Task	micolUte V	Sumillary																

1		March 2023			
	5/3	12/3	19/3	26/3	
		15/3			
		15/3			
					_
	11/2				
	11/3				
	11/3 11/3				

C	Task Name	Duration Start	Finish		1	0/4	January	2023	1	00/4	00/4	1	5/0	February		40/0	1	
8	Portion 3	648 days Mon 29/11/21	Thu 7/9/23	1/1		8/1		15/1		22/1	29/1		5/2	12/	2	19/2		_
)	Provision of site access	7 days Mon 29/11/21	Sun 5/12/21															
)	Mobilization& Site Clearance	14 days Mon 6/12/21	Sun 19/12/21															
1	Preparation& submission of MS, Temp works, associated plans & docs	52 days Mon 20/12/21	Wed 9/2/22															
2	Engineer AIP of MS, Temp works, plans& associated docs	21 days Thu 10/2/22	Wed 2/3/22	_														
43	Provision of temporary drainage system	374 days Thu 3/3/22	Sat 11/3/23															
44	Ground Cleaning, Scarifying, Ripping, Cultivation and Soil Replacement	90 days Sun 12/3/23	Fri 9/6/23															
45	Soft landscaping works - Hydroseeding planting	90 days Sat 10/6/23	Thu 7/9/23															
646	Installation of chain link fencing	60 days Tue 11/4/23	Fri 9/6/23															
47	GI works (PMI 006)	7 days Mon 3/10/22	Sun 9/10/22	_														
48	Portion 4	764 days Fri 30/7/21	Fri 1/9/23															-
549	Provision of site access [on starting date as per Contract]	7 days Fri 30/7/21	Thu 5/8/21															_
550	Remove AHM, Ground Cleaning, Scarifying, Ripping, Cultivation and Soil Replacement		Mon 3/7/23															
551	Soft landscaping works - Hydroseeding planting	60 days Tue 4/7/23	Fri 1/9/23															
552	GI works (PMI 006)	10 days Mon 10/10/22	Wed 19/10/22	_														
553	Portion 5	557 days Sat 26/2/22	Tue 5/9/23	_														7
554	Provision of site access [212 days after starting date as per Contract]	7 days Sat 26/2/22	Fri 4/3/22															_
555	Provision of temporary drainage system	370 days Sat 5/3/22	Thu 9/3/23															
556 557	Ground Cleaning, Scarifying, Ripping, Cultivation and Soil Replacement Soft landscaping works - Hydroseeding planting	90 days Fri 10/3/23 90 days Thu 8/6/23	Wed 7/6/23 Tue 5/9/23	_														
558	Installation of chain link fencing	60 days Thu 8/6/23	Sun 6/8/23															
558 559	Section of Works 3A - Establishment Works for all Landscape Softworks in Section 3		Fri 6/9/24															
559	of the Works	505 days 110 115/25	111 0/3/24															
560	Commencement of Establishment Work for Section 3	0 days Thu 7/9/23	Thu 7/9/23															
561	Establishment Work Duration for Section 3	365 days Fri 8/9/23	Fri 6/9/24															
562	Completion of Works in Section 3	0 days Fri 6/9/24	Fri 6/9/24															
563	Section of Works 4 - Portions 6, 12	976 days Fri 30/7/21	Sun 31/3/24															-
564	Portion 6	793 days Sat 29/1/22	Sun 31/3/24	_														-
565	Provision of site access [183 days after starting date as per Contract]	0 days Sat 29/1/22	Sat 29/1/22															
566	Deferred possession	81 days Sat 29/1/22	Tue 19/4/22															
567	Mobilization& Site Clearance	14 days Wed 20/4/22	Tue 3/5/22															
568	Issuance of revised details of drainage and retaining wall by PM	46 days Fri 16/9/22	Mon 31/10/22	_														
569	Drainage pipe and manhole below the base slab of retaining wall	113 days Tue 1/11/22	Tue 21/2/23															
570	Excavation and temporary shoring	92 days Tue 1/11/22	Tue 31/1/23								31 /	/1	6/2					
571	Pipe laying	70 days Tue 29/11/22 15 days Tue 7/2/23	Mon 6/2/23 Tue 21/2/23	_								7/	6/2 2			24/5		
572 573	CCTV inspection, testing and commissioning Time Risk Allowance	14 days Wed 22/2/23	Tue 7/3/23										2			21/2		
573 574	Retaining wall	195 days Wed 8/3/23	Mon 18/9/23	_											2	.2/2		_
574 575	Excavation and temporary shoring	90 days Wed 8/3/23	Mon 5/6/23	_														
575 576	Blinding layer	90 days Wed 15/3/23	Mon 12/6/23	_														
577	Base slab	90 days Wed 22/3/23	Mon 19/6/23	_														
578	Wall stem	90 days Sat 1/4/23	Thu 29/6/23	_														
579	Backfilling	21 days Fri 30/6/23	Thu 20/7/23	_														
580	Handrailing	60 days Fri 21/7/23	Mon 18/9/23															
581	Drainage pipe and manhole above the base slab of retaining wall	105 days Fri 21/7/23	Thu 2/11/23															
582	Pipe laying	90 days Fri 21/7/23	Wed 18/10/23															
583	CCTV inspection, testing and commissioning	15 days Thu 19/10/23	Thu 2/11/23															
584	Backfilling and compaction of materials, landscape wall, edge, soil placement, U channel & catch pit, shelters, stairs, seat, railing and pavement installation etc.	150 days Fri 3/11/23	Sun 31/3/24	_														
585	Soft landscaping works	90 days Tue 2/1/24	Sun 31/3/24															
586	Irrigation system	96 days Fri 3/11/23	Tue 6/2/24															
587	Application for water supply	30 days Fri 3/11/23	Sat 2/12/23															
588	Installation	60 days Sat 9/12/23	Tue 6/2/24															
589	Lighting	120 days Fri 3/11/23	Fri 1/3/24															
	Application for electricity power supply	120 days Fri 3/11/23	Fri 1/3/24															
590		90 days Fri 3/11/23	Wed 31/1/24															
590 591	Installation including ducting and draw pit	30 uays 111 3/11/23	1100 31/1/24															



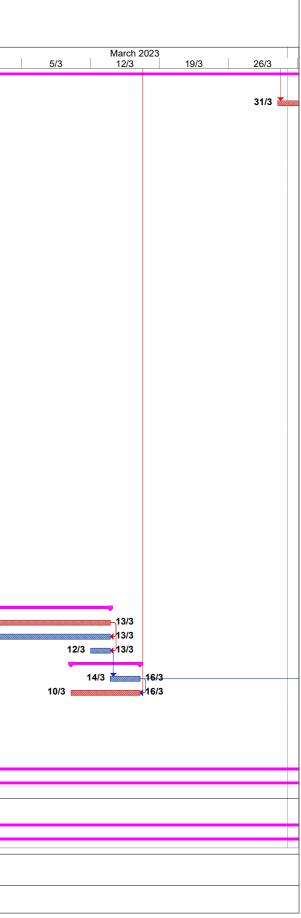
דן כ	ask Name	Duration	Start	Finish			January 2			,				February				
92	Energization	15 days	Thu 1/2/24	Thu 15/2/24	1/1	8/1		15/1	22/1		29/1		5/2	12	/2	19/2		26/2
93	Testing and Commissioning of lighting		Fri 16/2/24	Fri 1/3/24														
94	Portion 12		Fri 30/7/21	Fri 8/3/24														
95	Provision of site access [on starting date as per Contract]		Fri 30/7/21	Thu 5/8/21														
96	Mobilization& Site Clearance	14 days	Fri 6/8/21	Thu 19/8/21														
97	Preparation& submission of MS, Temp works, associated plans & docs	52 days	Fri 20/8/21	Sun 10/10/21														
98	Engineer's AIP of MS, Temp works, plans& associated docs	22 days	Mon 11/10/21	Mon 1/11/21														
99	Drainage pipe and manhole	394 days	Tue 2/11/21	Wed 30/11/22														
00	Excavation and temporary shoring	364 days	Tue 2/11/21	Mon 31/10/22														
)1	Pipe laying	245 days	Wed 16/3/22	Tue 15/11/22														
)2	CCTV inspection, testing and commissioning	15 days	Wed 16/11/22	Wed 30/11/22														
)3	Time Risk Allowance	14 days	Thu 1/12/22	Wed 14/12/22														
)4	Backfilling and compaction of materials, landscape wall, edge, soil placement, U channel & catch pit, shelters, stairs, seat, railing and pavement installation etc.		Thu 15/12/22	Tue 10/10/23														
)5	Soft landscaping work i.e. trees, shrubs greening works		Thu 13/7/23	Tue 10/10/23														
06	Irrigation system		Thu 11/1/24	Wed 7/2/24														
)7	Application for water supply		Fri 3/11/23	Sat 2/12/23														
8	Installation		Sun 3/12/23	Wed 31/1/24														
)9	Lighting		Thu 11/1/24	Fri 8/3/24														
10	Application for electricity power supply		Fri 3/11/23	Fri 1/3/24														
11	Installation including ducting and draw pit		Fri 3/11/23 Wed 7/2/24	Wed 31/1/24														
12	Energization			Wed 21/2/24														
13 14	Testing and Commissioning of lighting Additional GI at Portion 12 (PMI 005)		Thu 22/2/24 Wed 1/6/22	Thu 7/3/24 Wed 15/6/22														
				Mon 31/3/25														
5	Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works	365 days	Sun 31/3/24	WOR 31/3/25														
6	Commencement of Establishment Work for Section 4	0 days	Sun 31/3/24	Sun 31/3/24														
17	Establishment Work Duration for Section 4	365 days	Mon 1/4/24	Mon 31/3/25														
18	Completion of Works in Section 4	0 days	Mon 31/3/25	Mon 31/3/25														
19	Section of Works 5A - Portions 9, 10	738 days	Fri 30/7/21	Sun 6/8/23														
20	Portion 9 [Sitting Out Area C & R2-1 Footpath]	677 days	Wed 29/9/21	Sun 6/8/23														
21	Provision of site access [61 days after starting date as per Contract]	8 days	Wed 29/9/21	Wed 6/10/21														
2	Mobilization& Site Clearance	15 days	Thu 7/10/21	Thu 21/10/21														
3	Preparation& submission of MS, Temp works, associated plans & docs	49 days	Fri 22/10/21	Thu 9/12/21														
24	Engineer AIP of MS, Temp works, plans& associated docs	24 days	Fri 10/12/21	Sun 2/1/22														
25	Modification of existing surface drain at slope toe (PMI 032 & 050)		Thu 29/9/22	Sat 31/12/22	31/12													
6	Excavation and construction of drainage pipe and manhole	30 days	Sun 1/1/23	Mon 30/1/23	·						30/1							
27	CCTV inspection, testing and commissioning of Drainage Lines	7 days	Tue 31/1/23	Mon 6/2/23						31/1			6/2					
28	Time Risk Allowance		Tue 7/2/23	Tue 21/2/23								7/2				21/2	2	
29	Backfilling and compaction of road materials		Wed 22/2/23	Wed 12/4/23											:	22/2		
30	Construction of U channel		Thu 13/4/23	Wed 10/5/23														
31	Installation of E1 kerbs		Thu 11/5/23	Wed 24/5/23														
32	Construction of porous pavement footpath		Thu 25/5/23	Fri 7/7/23														
33	Installation of street furniture, traffic signs, bollards and road markings		Sat 8/7/23	Sun 6/8/23														
34	Landscaping works		Sun 4/6/23	Wed 2/8/23														
35	Irrigation system		Wed 1/2/23	Mon 1/5/23														
36	Application for water supply		Wed 1/2/23	Thu 2/3/23						1/	2							0/0
7	Installation		Fri 3/3/23	Mon 1/5/23														3/3
8	Lighting		Wed 1/2/23	Sun 30/7/23														
9	Application for electricity power supply		Wed 1/2/23	Wed 31/5/23							2							
0	Installation including ducting and draw pit		Wed 1/2/23	Fri 30/6/23						1/	2							
1	Energization		Sat 1/7/23	Sat 15/7/23 Sun 30/7/23														
2	Testing and Commissioning Portion 10		Sun 16/7/23	Sun 30/7/23 Sun 6/8/23														
3 4	Portion 10 Provision of site access [on starting date as per Contract]		Fri 30/7/21 Fri 30/7/21	Thu 5/8/21														
5	Slope inspection & assessment work	50 days	Fri 6/8/21	Fri 24/9/21					 									
<u> </u>	ernational Water Task Critical Task	Milestone	e 📣	Summary		 												

			March 2023)			
1	5/3	1	12/3	19/3	1	26/3	۱ I
	5/5		12/3	19/5		20/3	
							-
							-
							-
							1
2/3							
2.3							
							1
							_

DT	ask Name	Duration Start	Finish	1/1	8/1	January 20)23 5/1		22/1		29/1	5/2	February 12/2		19/2	1
6	Mobilization, access arrangements, logistic plan & Site Clearance	52 days Sat 25/9/21	Mon 15/11/21	1/1	0/1		5/1		22/1		2.5/1	JIZ	12/	-	19/2	
	Preparation & submission of MS, Temp works, associated plans & docs	37 days Tue 16/11/21	Wed 22/12/21													
8	Time Risk Allowance	16 days Thu 23/12/21	Fri 7/1/22													
19	Engineer's AIP of MS, Temp., works, plans & associated docs	21 days Sat 8/1/22	Fri 28/1/22													
50	Demolition and removal of disused water pipe and sprinkler system	160 days Sat 29/1/22	Thu 7/7/22													
651	Reinstatement of joint sealant	270 days Fri 8/7/22	Mon 3/4/23													
652	Slope Works at Feature No. 11NE-D/C998 (409m)	50 days Wed 1/3/23	Wed 19/4/23													
553	Construction of concrete maintenance staircase with hand railings	50 days Wed 1/3/23	Wed 19/4/23													1
654	Installation of display sign for slope registration no. x2	7 days Thu 13/4/23	Wed 19/4/23													
55	Slope Works at Feature No. 11NE-D/FR657 (63m)	30 days Mon 30/1/23	Tue 28/2/23													
656	Filling of void with cement soil	8 days Tue 21/2/23	Tue 28/2/23							4				21/	/2	
657	Construction of concrete berm	30 days Mon 30/1/23	Tue 28/2/23						30	/1			14/0			
658 250	Installation of hand railings Installation of display sign for slope registration no. x1	15 days Tue 14/2/23 3 days Sun 26/2/23	Tue 28/2/23 Tue 28/2/23										14/2		-	26/2
659 660	Repairing of handrailing	7 days Wed 22/2/23	Tue 28/2/23												22/2	
		35 days Mon 26/12/23	Sun 29/1/23											4	1212	
661 662	Slope Works at Feature No. 11NE-D/C1003 (265m) Construction of concrete berm	35 days Mon 26/12/22 35 days Mon 26/12/22	Sun 29/1/23 Sun 29/1/23							29/	4					
663	Installation of hand railings	8 days Sun 22/1/23	Sun 29/1/23				22/1			29/						
664	Installation of display sign for slope registration no. x1	3 days Fri 27/1/23	Sun 29/1/23				22/1	-	27/1	29/						
665	Slope Works at Feature No. 11NE-D/C1006 (60m)	21 days Mon 5/12/22	Sun 25/12/22													
666	Construction of concrete berm (~30m)	21 days Mon 5/12/22	Sun 25/12/22													
67	Installation of hand railings (~30m)	7 days Mon 19/12/22	Sun 25/12/22													
668	Installation of display sign for slope registration no. x1	3 days Fri 23/12/22	Sun 25/12/22									 				
669	Repairing of handrailing	7 days Mon 19/12/22	Sun 25/12/22													
670	Slope Works at Feature No. 11NE-D/C987 (90m)	150 days Fri 8/7/22	Sun 4/12/22													
671	Construction of concrete berm	33 days Wed 2/11/22	Sun 4/12/22													
672	Installation of hand railings	150 days Fri 8/7/22	Sun 4/12/22													
673	Installation of non-biodegradable erosion control mat with hydroseeding	23 days Sat 12/11/22	Sun 4/12/22													
674	Installation of display sign for slope registration no. x1	2 days Sat 3/12/22	Sun 4/12/22													
675	Repairing of handrailing	7 days Mon 28/11/22	Sun 4/12/22													
676	Slope Works at Feature No. 11NE-D/C980 (55m)	46 days Thu 20/4/23	Sun 4/6/23													
677	Construction of concrete berm	30 days Sat 6/5/23	Sun 4/6/23													
678	Installation of hand railings	17 days Fri 19/5/23	Sun 4/6/23													
679	Installation of non-biodegradable erosion control mat with hydroseeding	46 days Thu 20/4/23	Sun 4/6/23													
680	Installation of display sign for slope registration no. x1	2 days Sat 3/6/23	Sun 4/6/23													
681	Repairing of handrailing	7 days Mon 29/5/23	Sun 4/6/23													
582	Slope Works at Feature No. 11NE-D/C174 (70m)	7 days Mon 5/6/23	Sun 11/6/23													
683	Installation of display sign for slope registration no. x1	3 days Fri 9/6/23	Sun 11/6/23													
584	Reinstatement of sprayed concrete	7 days Mon 5/6/23	Sun 11/6/23													
685	Slope Works at Feature No. 11NE-D/C688 (167m)	170 days Mon 2/1/23	Tue 20/6/23													
686	Installation of display sign for slope registration no. x1	9 days Mon 12/6/23	Tue 20/6/23													
687	Construction of tree rings x9	7 days Wed 14/6/23	Tue 20/6/23													
888	Reinstatement of sprayed concrete	37 days Mon 2/1/23	Tue 20/6/23	1												
589 300	Slope Works at Feature No. 11NE-D/C999 (250m)	3 days Wed 21/6/23	Fri 23/6/23 Fri 23/6/23													
690 301	Installation of display sign for slope registration no. x2 Slope Works at Feature No. 11NE-D/C1026 (60m)	3 days Wed 21/6/23	Sun 6/8/23													
691 692	Filling of void with cement soil	47 days Wed 21/6/23	Sun 6/8/23													
592 593	Installation of non-biodegradable erosion control mat with hydroseeding	47 days Wed 21/6/23	Sun 6/8/23													
593 594	Installation of display sign for slope registration no. x1	2 days Sat 5/8/23	Sun 6/8/23													
695	Repairing of handrailing	7 days Mon 31/7/23	Sun 6/8/23													
595 596	Slope Works at Feature No. 11NE-D/C979 (45m)	14 days Fri 17/3/23	Thu 30/3/23													
i97	Construction of concrete berm	14 days Fri 17/3/23	Thu 30/3/23													
598	Installation of hand railings	7 days Fri 24/3/23	Thu 30/3/23													
599	Installation of display sign for slope registration no. x1	2 days Wed 29/3/23	Thu 30/3/23													
700	Repairing of handrailing	7 days Fri 24/3/23	Thu 30/3/23	_												
											1					

	5/3	March 2 12/3	2023	19/3		26/3	
							-
			,				
		17/3		24/3			30/3 30/3
					29	9/3 🔜	30/3
				24/3		•	30/3

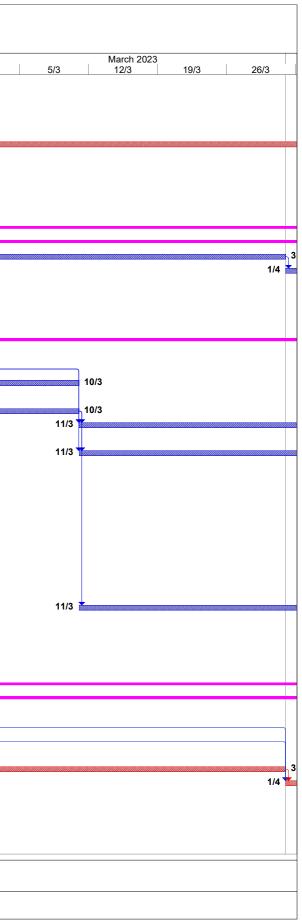
) Т	ask Name	Duration Start	Finish	1/1	1	8/1	January 2		1	22/1	29/1	1	5/2		ry 2023 2/2	19/2		26
1	Slope Works at Feature No. 11NE-D/C947 (420m)	124 days Mon 16/1/23	Fri 19/5/23	1/1		0/1	-	5/1		22/1	29/1		5/2		2/2	19/2		
	Filling of void with cement soil	7 days Sat 13/5/23	Fri 19/5/23															
	Removal of damaged wire mesh and construction of new wire mesh	50 days Fri 31/3/23	Fri 19/5/23															
	Installation of hand railings	14 days Sat 6/5/23	Fri 19/5/23															
;	Installation of display sign for slope registration no. x2	3 days Wed 17/5/23	Fri 19/5/23															
5	Reinstatement of concrete berm	7 days Sat 13/5/23	Fri 19/5/23															
	Repairing of handrailing	7 days Mon 16/1/23	Sun 22/1/23				16/1		<mark></mark> 2	2/1								
3	Slope Works at Feature No. 11NE-D/C977 (300m)	29 days Sat 20/5/23	Sat 17/6/23															
	Construction of 450 mm U-channel (~175m)	29 days Sat 20/5/23	Sat 17/6/23															
	Construction of wire mesh	28 days Sun 21/5/23	Sat 17/6/23															
1	Installation of display sign for slope registration no. x2	2 days Fri 16/6/23	Sat 17/6/23															
2	Construction of handrailing	7 days Sun 11/6/23	Sat 17/6/23	_														
3	Repairing of steel staircase	7 days Sun 11/6/23	Sat 17/6/23	-														
	Slope Works at Feature No. 11NE-D/C986 (190m)	50 days Sun 18/6/23	Sun 6/8/23	-														
5	Filling of void with cement soil	7 days Mon 31/7/23	Sun 6/8/23	-														
3	Construction of concrete berm	20 days Tue 18/7/23	Sun 6/8/23	_														
	Installation of hand railings	7 days Mon 31/7/23	Sun 6/8/23	_														
	Construction of wire mesh	50 days Sun 18/6/23	Sun 6/8/23	_														
	Installation of display sign for slope registration no. x2	3 days Fri 4/8/23	Sun 6/8/23	_														
	Slope Works at Feature No. 11NE-D/C871 (260m)	150 days Fri 8/7/22	Sun 4/12/22	-														
	Construction of lockable gate	7 days Mon 28/11/22	Sun 4/12/22	_														
_	Removal of existing damaged hand railings	14 days Mon 21/11/22	Sun 4/12/22	_														
-	Installation of hand railings	150 days Fri 8/7/22	Sun 4/12/22	_														
-	Installation of non-biodegradable erosion control mat with hydroseeding	24 days Fri 11/11/22	Sun 4/12/22	_														
	Reinstatement of concrete berm	7 days Mon 28/11/22	Sun 4/12/22	_														
	Repairing of handrailing	7 days Mon 28/11/22	Sun 4/12/22	_														
	Slope Works at Feature No. 11NE-D/C976 (185m)	49 days Mon 5/12/22	Sun 22/1/23	_														
				_						2/4								
3	Construction of concrete berm	25 days Thu 29/12/22	Sun 22/1/23				404			2/1								
)	Installation of hand railings	7 days Mon 16/1/23	Sun 22/1/23	_			16/1			2/1								
_	Repainting of existing steel maintenance staircase	7 days Mon 16/1/23	Sun 22/1/23	_			16/1			2/1								
	Construction of wire mesh	49 days Mon 5/12/22	Sun 22/1/23				1014			2/1								
2	Removal of existing handrailing and steel landing plates and re-construction	7 days Mon 16/1/23	Sun 22/1/23	_			16/1			2/1								
3	Installation of display sign for slope registration no. x2	3 days Fri 20/1/23	Sun 22/1/23	_				20/1	-2	2/1								
ł	Slope Works at Feature No. 11NE-D/C978 (350m)	25 days Mon 23/1/23	Thu 16/2/23	_					. 1									
	Construction of concrete berm	25 days Mon 23/1/23	Thu 16/2/23					23/	1 🚋						16/2			
	Installation of hand railings	16 days Wed 1/2/23	Thu 16/2/23								1/2				16/2			
	Repainting of existing steel maintenance staircase	7 days Fri 10/2/23	Thu 16/2/23										10/2 🛛		16/2			
	Installation of display sign for slope registration no. x2	2 days Wed 15/2/23	Thu 16/2/23											15/2	16/2			
)	Slope Works at Feature No. 11NE-D/C988 (370m)	25 days Fri 17/2/23	Mon 13/3/23												-			-
)	Construction of concrete berm	25 days Fri 17/2/23	Mon 13/3/23											1	7/2			
1	Installation of hand railings	15 days Mon 27/2/23	Mon 13/3/23														27/2 🛛	
!	Installation of display sign for slope registration no. x2	2 days Sun 12/3/23	Mon 13/3/23															
3	Slope Works at Feature No. 11NE-D/C1004 (375m)	7 days Fri 10/3/23	Thu 16/3/23															
ŀ	Installation of display sign for slope registration no. x2	3 days Tue 14/3/23	Thu 16/3/23															
;	Repairing of handrailing	7 days Fri 10/3/23	Thu 16/3/23															
3	Section of Works 5AI - Establishment Works for all Landscape Softworks in Section	365 days Sun 6/8/23	Mon 5/8/24															
	5A of the Works Commencement of Establishment Work for Section 5A	0 days Sun 6/8/23	Sun 6/8/23															
		-																
3	Establishment Work Duration for Section 5A	365 days Mon 7/8/23	Mon 5/8/24	_														
	Completion of Works in Section 5A	0 days Mon 5/8/24	Mon 5/8/24	_														
	Section of Works 5B - Portion 11	526 days Sat 26/2/22	Sat 5/8/23	_														_
+	Portion 11	526 days Sat 26/2/22	Sat 5/8/23	_														_
	Provision of site access [212 days after starting date as per Contract]	0 days Sat 26/2/22	Sat 26/2/22															
	Road marking& miscellaneous work	29 days Sat 8/7/23	Sat 5/8/23															
	Section of Works 6 - Portion 7	365 days Tue 29/11/22	Tue 28/11/23	_														_
	Portion 7	365 days Tue 29/11/22	Tue 28/11/23															_
	ernational Water Task Critical Task	Milestone 🔷	Summary 🔻															_
	Corp.		control y															



ר כ	ask Name	Duration Start	Finish	A 14	I	0.14	January 202		22/4	001		E /0	February 202	23	10/0	-
3	Provision of site access [487 days after starting date as per Contract]	7 days Tue 29/11/22	Mon 5/12/22	1/1		8/1	15/	I	22/1	29/1		5/2	12/2		19/2	
	Mobilization& Site Clearance	60 days Tue 6/12/22	Fri 3/2/23								3/2					
+	Time Risk Allowance	15 days Sat 4/2/23	Sat 18/2/23	-							4/2 📩			1	8/2	
+	Excavation/backfilling and compaction of material	90 days Sun 19/2/23	Fri 19/5/23	-									19	9/2 📥		
+	Construction of U-channels with cover and catchpits	63 days Sat 20/5/23	Fri 21/7/23	-												
+	Road Paving work and associates street furniture	70 days Sat 22/7/23	Fri 29/9/23													
+	Soft landscaping works	60 days Sat 30/9/23	Tue 28/11/23	_												
+	Irrigation system	90 days Sun 19/2/23	Fri 19/5/23	_										_		_
+	Application for water supply	30 days Sun 19/2/23	Mon 20/3/23	_									19	9/2		
+	Installation	60 days Tue 21/3/23	Fri 19/5/23	_												
+	Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6	365 days Tue 28/11/23	Wed 27/11/24	_												
	of the Works	505 days 1 de 20/11/25	Wed 2//11/24													
T	Commencement of Establishment Work for Section 6	0 days Tue 28/11/23	Tue 28/11/23	_												
t	Establishment Work Duration for Section 6	365 days Wed 29/11/23	Wed 27/11/24													
1	Completion of Works in Section 6	0 days Wed 27/11/24	Wed 27/11/24	-												
	Section of Works 7A - Portions 13a, 14 (DELETED)	479 days Fri 30/7/21	Sun 20/11/22													
	Portion 13a	479 days Fri 30/7/21	Sun 20/11/22													
ſ	Provision of site access [183 days after starting date as per Contract]	9 days Fri 30/7/21	Sat 7/8/21													
+	Mobilization& Site Clearance	14 days Fri 30/7/21	Thu 12/8/21													
+	(G.I Works) Geotechnical Instrumentation Installation	72 days Fri 30/7/21	Sat 9/10/21	-												
+	Time Risk Allowance	21 days Fri 30/7/21	Thu 19/8/21	_												
+	Bulk excavation of cut slope {Access path& Site G-2}	72 days Sat 10/9/22	Sun 20/11/22	_												
+	Cutting & filling of slopes to formation level {Access path & Site G-2}	109 days Fri 30/7/21	Mon 15/11/21	_												
+	Construction of drainage system with cover and catchpits {Access path & Site G-2}	84 days Fri 30/7/21	Thu 21/10/21	_												
+	CCTV, testing & commissioning of drainage works	32 days Fri 30/7/21	Mon 30/8/21	_												
+	Construction of footpath, pavements, road furniture& road marking etc.	73 days Fri 30/7/21	Sun 10/10/21													
-	Portion 14	186 days Fri 30/7/21	Mon 31/1/22	_												
-	Provision of site access [on starting date as per Contract]	7 days Fri 30/7/21	Thu 5/8/21	_												
_	Mobilization & Site Clearance		Thu 12/8/21	_												
		14 days Fri 30/7/21														
	Preparation& submission of MS, Temp works, associated plans & docs	52 days Fri 30/7/21	Sun 19/9/21	_												
	Engineer's AIP of MS, Temp works, plans & associated docs	22 days Fri 30/7/21	Fri 20/8/21	_												
	Time Risk Allowance	35 days Fri 30/7/21	Thu 2/9/21	_												
	Cutting& filling of slopes to formation level {Site G-2}	108 days Fri 30/7/21	Sun 14/11/21	_												
	Excavation and Construction of Waterlines for fresh water & flushing water	74 days Fri 30/7/21	Mon 11/10/21	_												
	Application for (WW0046: Part IV & V)	30 days Fri 30/7/21	Sat 28/8/21	_												
	Testing and Commissioning of Waterlines for fresh water and flushing water	36 days Fri 30/7/21	Fri 3/9/21													
	Construction of pavement footpath	109 days Fri 30/7/21	Mon 15/11/21		_											—
	Construction of miscellaneous work	35 days Fri 30/7/21	Thu 2/9/21													
	PMI 001 : Additional GI at Portion 14	109 days Fri 15/10/21	Mon 31/1/22													
	Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED)	365 days Fri 30/7/21	Fri 29/7/22													
-	Commencement of Establishment Work for Section 7A	0 days Fri 30/7/21	Fri 30/7/21													
+	Establishment Work Duration for Section 7A	365 days Fri 30/7/21	Fri 29/7/22	_												
+	Completion of Works in Section 7A	0 days Fri 29/7/22	Fri 29/7/22	_												
-	Section of Works 7B - Portions 13b, 15	752 days Sun 27/2/22	Tue 19/3/24													_
-	Portion 13b & 15		Tue 19/3/24													
		752 days Sun 27/2/22		_												1
-	Provision of site access [212 days after starting date as per Contract]	7 days Sun 27/2/22	Sat 5/3/22	_												
	Deferred possession	52 days Sun 27/2/22	Tue 19/4/22	_												
	Mobilization& Site Clearance	21 days Wed 20/4/22	Tue 10/5/22	_												
	Time Risk Allowance	15 days Wed 11/5/22	Wed 25/5/22	_												
	Portion 13b	664 days Thu 26/5/22	Tue 19/3/24	_												-
	Elevated walkway	664 days Thu 26/5/22	Tue 19/3/24	_												-
	Modification of existing retaining wall RWA10 (PMI 033)	60 days Thu 26/5/22	Sun 24/7/22													
	Modification of existing retaining wall RWA9 &10	214 days Mon 25/7/22	Thu 23/2/23	_												
	Excavation	100 days Mon 25/7/22	Tue 1/11/22													
	Removal of existing granite stone facing	14 days Wed 2/11/22	Tue 15/11/22		1											
-																_

5/3		March 2023 12/3	19/3	26/3	
0,0	1	1210	13/3	2010	
			20/3		
		2	1/3 🎽		

1 Hacking away be retained for 2 Construction 3 Backfilling 4 Erection of false 5 Construction of false 6 Tendon stressing 7 Construction of if 8 Lighting and land 9 Replacement of 0 Covered Walkway 1 Contractor Des 2 Submission 3 Approval 4 Construction 5 Footing 6 Superstructur 7 Lighting 8 Site G2 9 Installation of so 1 Construction of so 2 Excavatoin of sk 3 Construction of so 4 Drainage, sewag 5 Construction of so 6 UU under footpa 7 Footpath & pave 8 Road furniture& 9 Irrigation system 0 Application for et 4 Installation inclu 5		1										
11 Hacking away 12 Construction 13 Backfilling 14 Erection of false 15 Construction of false 16 Tendon stressing 17 Construction of false 18 Lighting and land 19 Replacement of 20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of so 30 Excavatoin of sk 31 Construction of sk 32 Excavatoin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for et	Name	Duration Start	Finish	1/1	8/1	January 2023 15/1	22/1	29/1	5/2	February 2023 12/2	19/2	
be retained for Construction Backfilling Construction of falser Construction of Superstructur Construction of superstructur Completion of Works 7B1 - Estar Completion of Works 7B1 - Estar Completion of Works 8 - Portion Portion 16 Portion 16 Construction of superstructur Construction of superstructur Construction of superstructur Construction of superstructur Completion of superstructur Construction of superstructur Construction of superstructur Construction of superstructur Construction of superstructur Construction of superstructur Construction of chain-lind	Cutting away existing coping by wire sawing machine	21 days Wed 16/11/22	Tue 6/12/22						0/2	, _	10/2	
2 Construction 3 Backfilling 4 Erection of false 5 Construction of I 6 Tendon stressing 7 Construction of I 8 Lighting and land 9 Replacement of 0 Covered Walkway 1 Contractor Des 2 Submission 3 Approval 4 Construction 5 Footing 6 Superstructur 7 Lighting 8 Site G2 9 Installation of mm 0 Excavatoin of sk 1 Construction of sk 2 Excavatoin of sk 3 Construction of sk 1 Construction of sk 1 Construction of sk 2 Excavatoin of sk 3 Construction of sk 4 Drainage, sewag 5 Construction of of UU under footpa 7 Footpath & pave 8 Road furniture& 9 <td>Hacking away existing wall stem by hydraulic breaker (existing vertical bar t be retained for further connection)</td> <td>35 days Wed 7/12/22</td> <td>Tue 10/1/23</td> <td></td> <td>10</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Hacking away existing wall stem by hydraulic breaker (existing vertical bar t be retained for further connection)	35 days Wed 7/12/22	Tue 10/1/23		10	1						
3 Backfilling 4 Erection of false 5 Construction of I 6 Tendon stressing 7 Construction of I 8 Lighting and land 9 Replacement of 0 Covered Walkway 1 Contractor Des 2 Submission 3 Approval 4 Construction 5 Footing 6 Superstructur 7 Lighting 8 Site G2 9 Installation of ski 1 Construction of ski 2 Excavatoin of ski 3 Construction of ski 4 Drainage, sewag 5 Construction of 6 7 Footpath & pave 8 Road furniture& 9 Irrigation system 0 Application for et 1 Installation 2 Lighting 3 Application for et 4 Installation inclue 5 Energization 6 Testing and Con 7 Soil placement, woodla 8 Section of Works 7B1 - Esta 9 Commencemen	Construction of new RC wall stem and coping	30 days Wed 11/1/23	Thu 9/2/23		11/1					9/2		
5 Construction of I 6 Tendon stressing 7 Construction of i 8 Lighting and land 9 Replacement of 0 Covered Walkway 1 Contractor Des 2 Submission 3 Approval 4 Construction 5 Footing 6 Superstructur 7 Lighting 8 Site G2 9 Installation of mm 0 Excavatoin of sk 1 Construction of sk 2 Excavatoin of sk 3 Construction of sk 4 Drainage, sewag 5 Construction of 6 7 Footpath & pave 8 Road furniture& 9 Irrigation system 0 Application for w 1 Installation 2 Lighting 3 Application for ed 4 Installation inclu 5 Energization 6 Testing and C		14 days Fri 10/2/23	Thu 23/2/23						10/2	•	23	2
16 Tendon stressing 17 Construction of i 18 Lighting and land 19 Replacement of 20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of mm 30 Excavatorin of sk 31 Construction of sk 32 Excavatorin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for el 44 Installation inclu 45 Energization <td< td=""><td>Erection of falsework/formwork, setting up temporary bearings for stressed bea</td><td>n 90 days Fri 24/2/23</td><td>Wed 24/5/23</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>24/2</td><td></td></td<>	Erection of falsework/formwork, setting up temporary bearings for stressed bea	n 90 days Fri 24/2/23	Wed 24/5/23								24/2	
17 Construction of i 18 Lighting and law 19 Replacement of 20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of me 30 Excavatori of sk 31 Construction of sk 32 Excavatori of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for w 44 Installation inclu 45 Energization 46 Testing and Con 47 </td <td>Construction of Beams</td> <td>90 days Thu 25/5/23</td> <td>Tue 22/8/23</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Construction of Beams	90 days Thu 25/5/23	Tue 22/8/23									
18 Lighting and law 19 Replacement of 20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of mo 30 Excavatorin of sk 31 Construction of sk 32 Excavatorin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for el 44 Installation inclu 45 Energization 46 Testing and Con 47 Soil placement, woodla	Tendon stressing and grouting of beams	90 days Wed 23/8/23	Mon 20/11/23									
19 Replacement of 20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructure 27 Lighting 28 Site G2 29 Installation of modiation of side 30 Excavatoin of skite 31 Construction of skite 32 Excavatoin of skite 33 Construction of skite 34 Drainage, sewag 35 Construction of skite 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for elef 44 Installation inclue 45 Energization 46 Testing and Con 47 Soil placement, woodla 48 Section of Work	Construction of insitu decking	60 days Tue 21/11/23	Fri 19/1/24									
20 Covered Walkway 21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of m 30 Excavatoin of sk 31 Construction of sk 32 Excavatoin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for el 44 Installation inclue 45 Energization 46 Testing and Con 47 Soil placement, woodla 48 Section of Works 7B1-Esta 7B of the Works Si2 52 Section of Works 8 - Portion 53 Portion 16 54 Provision of site acces 55 Mobilization& Site Clea	Lighting and landscaping works	30 days Sat 20/1/24	Sun 18/2/24									
21 Contractor Des 22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of m 30 Excavatoin of ski 31 Construction of ski 32 Excavatoin of ski 33 Construction of ski 34 Drainage, sewag 35 Construction of ski 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for of work 41 Installation 42 Lighting 43 Application for elevers 44 Installation inclu 45 Energization 46 Testing and Con 47 Soil placement, woodla 48 Section of Works 7PI - Esta 50 Establishment Work Dura 51 Completion of	Replacement of permanent bearings and M.Js	30 days Mon 19/2/24	Tue 19/3/24									
22 Submission 23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of mm 30 Excavatoin of sk 31 Construction of sk 32 Excavatoin of sk 33 Construction of 34 Drainage, sewag 35 Construction of 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for of 41 Installation 42 Lighting 43 Application for el 44 Installation inclu 45 Energization 46 Testing and Con 47 Soil placement, woodla 48 Section of Works 7PI - Esta 50 Establishment Work Dura 51 Completion of Works 1S 52 Section of Works 8 - Portio 53 Portion 16 54 Provision of site acces 55 Mobilization & Chai-nin	Covered Walkway	440 days Sun 1/1/23	Fri 15/3/24									
23 Approval 24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of mm 30 Excavatoin of sk 31 Construction of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of of 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for ef 44 Installation inclue 45 Energization 46 Testing and Con 47 Soil placement, woodlat 48 Section of Works 7B1 - Esta 50 Establishment Work Dura 51 Completion of Works in Site Site 52 Section of Works 8 - Portio 53 Portion 16 54 Provision of site acces 55 Mobilizations Site Clea 56 Time Risk Allowance	Contractor Design	150 days Sun 1/1/23	Tue 30/5/23									
24 Construction 25 Footing 26 Superstructur 27 Lighting 28 Site G2 29 Installation of mm 30 Excavatoin of sk 31 Construction of sk 32 Excavatoin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for el 44 Installation includ 45 Energization 46 Testing and Con 47 Soil placement, woodia 48 Section of Works 7B1 - Esta 50 Establishment Work Dura 51 Completion of Works 1S 52 Sect	Submission	90 days Sun 1/1/23	Fri 31/3/23									
325 Footing 326 Superstructur 327 Lighting 328 Site G2 329 Installation of mm 330 Excavatoin of sk 331 Construction of sk 333 Construction of sk 334 Drainage, sewag 335 Construction of sk 336 UU under footpa 337 Footpath & pave 38 Road furniture& 39 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodid 348 Section of Works TB1 - Estation 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilizat	Approval	60 days Sat 1/4/23	Tue 30/5/23									
26 Superstructur 127 Lighting 128 Site G2 129 Installation of mm 130 Excavatoin of sk 131 Construction of sk 132 Excavatoin of sk 133 Construction of sk 134 Drainage, sewag 135 Construction of sk 136 UU under footpa 137 Footpath & pave 138 Road furniture& 139 Irrigation system 140 Application for w 141 Installation 142 Lighting 143 Application for w 144 Installation incluit 145 Energization 146 Testing and Con 147 Soil placement, woodk 150 Establishment Work Dura 151 Completion of Works 7B1-Estation 152 Section of Works 8 - Portion 153 Portion 16 154 Provision of site acces 155 Mobilization& Site Clea 156 Time Risk Allowance 157 Installation of chain-lind		230 days Wed 31/5/23	Mon 15/1/24									
27 Lighting 28 Site G2 29 Installation of me 30 Excavatoin of sk 31 Construction of sk 33 Construction of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of sk 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for e 44 Installation including 45 Energization 46 Testing and Con 47 Soil placement, woodk 48 Section of Works 7B1-Estation 45 Completion of Works 7B-Cestation 46 Testing and Con 47 Soil placement, woodk 48 Section of Works 7B1-Estation 49 Commencement of Estable 50 Establishment Work Dura 51 Completion of Works 8 - Portio 52 Section of Works 8 - Portio 53 Portion 16 54 Provision of site acces 55 <td></td> <td>60 days Wed 31/5/23</td> <td>Sat 29/7/23</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		60 days Wed 31/5/23	Sat 29/7/23									
328 Site G2 329 Installation of mm 330 Excavatoin of sk 331 Construction of sk 332 Excavatoin of sk 333 Construction of sk 334 Drainage, sewag 335 Construction of sk 336 UU under footpa 337 Footpath & pays 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for e 344 Installation including 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works TBI - Estato 349 Commencement of Establishment Work Dura 351 Completion of Works S - Portion 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lint	Superstructure	170 days Sun 30/7/23	Mon 15/1/24									
329 Installation of mo 330 Excavatoin of sk 331 Construction of sk 332 Excavatoin of sk 333 Construction of sk 334 Drainage, sewag 355 Construction of sk 336 UU under footpa 337 Footpath & pave 388 Road furniture& 399 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation including 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1 - Estation 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleation 356 Time Risk Allowance 357 Installation of chain-lind		60 days Tue 16/1/24	Fri 15/3/24									
30 Excavatoin of sk 31 Construction of sk 32 Excavatoin of sk 33 Construction of sk 34 Drainage, sewag 35 Construction of 36 UU under footpa 37 Footpath & pave 38 Road furniture& 39 Irrigation system 40 Application for w 41 Installation 42 Lighting 43 Application for el 44 Installation inclue 45 Energization 46 Testing and Con 47 Soil placement, woodla 48 Section of Works 7B1-Esta 7B of the Works Section of Works 8 - Portion 51 Completion of Works 8 - Portion 52 Section of Works 8 - Portion 53 Portoin 16 54 Provision of site acces 55 Mobilization& Site Cleading 56 Time Risk Allowance 57 Installation of chain-lind		311 days Sat 1/10/22	Mon 7/8/23									
331 Construction of signed and sis and sis and signed and sis and signed and signed an	Installation of monitoring instruments	46 days Sat 1/10/22	Tue 15/11/22									
332 Excavatoin of sid 333 Construction of sid 333 Construction of sid 334 Drainage, sewag 335 Construction of sid 336 UU under footpa 337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for el 344 Installation includ 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1 - Esta 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clee 356 Time Risk Allowance 357 Installation of chain-lint		45 days Wed 16/11/22	Fri 30/12/22	0/12								
333 Construction of s 334 Drainage, sewag 335 Construction of 336 UU under footpa 337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation inclus 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works TBI - Esta 349 Commencement of Establ 350 Establishment Work Dura 351 Completion of Works 8 - Portio 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance 357 Installation of chain-lind	· ·	70 days Sat 31/12/22	Fri 10/3/23	0/4.0								
334 Drainage, sewag 335 Construction of 336 UU under footpa 337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1-Esta 349 Commencement of Establ 350 Establishment Work Dura 351 Completion of Works 8 - Portio 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind		45 days Wed 16/11/22	Fri 30/12/22	0/12								
335 Construction of 336 UU under footpa 337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works 7B1-Esta 349 Commencement of Establ 350 Establishment Work Dura 351 Completion of Works 8 - Portio 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance 357 Installation of chain-lind	-	70 days Sat 31/12/22 120 days Sat 11/3/23	Fri 10/3/23 Sat 8/7/23									
336 UU under footpa 337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1-Esta 350 Establishment Work Dura 351 Completion of Works 8 - Portio 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind	Drainage, sewage and watermain under access road Construction of access road	75 days Tue 25/4/23	Sat 8/7/23									
337 Footpath & pave 338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for e 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1 - Estar 350 Establishment Work Dura 351 Completion of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance 357 Installation of chain-lind		90 days Sat 11/3/23	Thu 8/6/23									
338 Road furniture& 339 Irrigation system 340 Application for w 341 Installation 342 Lighting 343 Application for w 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works TBI - Esta 350 Establishment Work Dura 351 Completion of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind	-	60 days Fri 9/6/23	Mon 7/8/23									
339 Irrigation system 340 Application for wight 341 Installation 342 Lighting 343 Application for wight 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works 7B1-Esta 350 Establishment Work Dura 351 Completion of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance	Road furniture& road marking etc.	30 days Sun 9/7/23	Mon 7/8/23									
340 Application for widdle 341 Installation 342 Lighting 343 Application for widdle 344 Installation 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1-Esta 349 Commencement of Estable 350 Establishment Work Dura 351 Completion of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind	-	210 days Tue 1/8/23	Mon 26/2/24									
341 Installation 342 Lighting 343 Application for el 344 Installation inclu 345 Energization 346 Testing and Con 347 Soil placement, woodla 348 Section of Works 7B1-Esta 349 Commencement of Establ 350 Establishment Work Dura 351 Completion of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance	Application for water supply	30 days Tue 1/8/23	Wed 30/8/23									
342 Lighting 343 Application for el 344 Installation inclu 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1 - Estat 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind		180 days Thu 31/8/23	Mon 26/2/24									
343 Application for el 344 Installation inclu 345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7B1 - Esta 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clear 356 Time Risk Allowance 357 Installation of chain-lind	Lighting	210 days Tue 1/8/23	Mon 26/2/24									
345 Energization 346 Testing and Con 347 Soil placement, woodle 348 Section of Works 7BI - Estat 349 Commencement of Establishment Work Dura 351 Completion of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleat 356 Time Risk Allowance 357 Installation of chain-lind	Application for electricity power supply	30 days Tue 1/8/23	Wed 30/8/23									
146 Testing and Con 147 Soil placement, woodla 148 Section of Works 7BI - Esta 7B of the Works 7B of the Works 149 Commencement of Establishment Work Dura 150 Establishment Work Dura 151 Completion of Works 8 - Portio 153 Portion 16 154 Provision of site acces 155 Mobilization& Site Cleat 156 Time Risk Allowance 157 Installation of chain-lini	Installation including ducting and draw pit	180 days Tue 1/8/23	Sat 27/1/24									
347 Soil placement, woodla 348 Section of Works 7BI - Esta 349 Commencement of Establishment of Establishment Work Dura 351 Completion of Works in S 352 Section of Works 8 - Portion 353 Portion 16 355 Mobilization& Site Cleation 356 Time Risk Allowance 357 Installation of chain-lind	Energization	15 days Sun 28/1/24	Sun 11/2/24									
Section of Works 7BI - Esta 7B of the Works 349 Commencement of Establishment of Establishment Work Dura 350 Establishment Works in State 361 Completion of Works in State 362 Section of Works 8 - Portion 363 Portion 16 365 Mobilization& Site Cleation 3656 Time Risk Allowance 3677 Installation of chain-lind	Testing and Commissioning	15 days Mon 12/2/24	Mon 26/2/24									
7B of the Works 349 Commencement of Establishment of Establishment Work Dura 350 Establishment Work Dura 351 Completion of Works in S 352 Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleation 356 Time Risk Allowance 357 Installation of chain-lind	Soil placement, woodland greening work and soft landscape works	150 days Sat 11/3/23	Mon 7/8/23									
349 Commencement of Establishment Work Dura 350 Establishment Work Dura 351 Completion of Works in State 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleet 356 Time Risk Allowance 357 Installation of chain-lini	tion of Works 7BI - Establishment Works for all Landscape Softworks in Section	365 days Tue 19/3/24	Wed 19/3/25									
350 Establishment Work Dura 351 Completion of Works in State 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Clee 356 Time Risk Allowance 357 Installation of chain-lini	Commencement of Establishment Work for Section 7B	0 days Tue 19/3/24	Tue 19/3/24									
S51 Completion of Works in S 352 Section of Works 8 - Portion 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleation 356 Time Risk Allowance 357 Installation of chain-lini	Establishment Work Duration for Section 7B	365 days Wed 20/3/24	Wed 19/3/25									
Section of Works 8 - Portio 353 Portion 16 354 Provision of site acces 355 Mobilization& Site Cleation 356 Time Risk Allowance 357 Installation of chain-lini	Completion of Works in Section 7B	0 days Wed 19/3/25	Wed 19/3/25									
Portion 16 554 Provision of site access 555 Mobilization& Site Cleation 556 Time Risk Allowance 557 Installation of chain-lini	tion of Works 8 - Portion 16	1054 days Thu 16/6/22	Sun 4/5/25									
Provision of site acces 355 Mobilization& Site Clea 356 Time Risk Allowance 357 Installation of chain-lini		689 days Thu 16/6/22	Sat 4/5/24					-				
355 Mobilization& Site Clea 356 Time Risk Allowance 357 Installation of chain-lini	Provision of site access [321 days after starting date as per Contract]	7 days Thu 16/6/22	Wed 22/6/22									
356 Time Risk Allowance 357 Installation of chain-lini	Mobilization& Site Clearance	15 days Thu 23/6/22	Thu 7/7/22									
357 Installation of chain-lin	Time Risk Allowance	24 days Fri 8/7/22	Sun 31/7/22									
FO Delay is based aver of a	Installation of chain-link fencing	60 days Mon 27/11/23	Thu 25/1/24									
58 Delay in handover of s	Delay in handover of site by others	289 days Thu 16/6/22	Fri 31/3/23									
59 Construction of fill slop	Construction of fill slope A7	180 days Sat 1/4/23	Wed 27/9/23									
60 Construction of fill slop	Construction of fill slope A8	150 days Fri 30/6/23	Sun 26/11/23									
61 Construction of slope s	Construction of slope surface drainage system	100 days Mon 27/11/23	Tue 5/3/24									
Soft landscaping work,	Soft landscaping work, soil placement work, hydroseeding and miscellaneous work	60 days Wed 6/3/24	Sat 4/5/24									
63 Section of Works 8A - E Section 8 of the Works	Section of Works 8A - Establishment Works for all Landscape Softworks in Section 8 of the Works	365 days Sat 4/5/24	Sun 4/5/25									



ID	Task Name	Duration Start	Finish		1		Januar			00/4	1		= 10	Februar		1010	I
64	Commencement of Establishment Work for Section 8	0 days Sat 4/5/24	Sat 4/5/24	1/1		8/1		15/1		22/1		29/1	5/2	12	2/2	19/2	
65	Establishment Work Duration for Section 8	365 days Sun 5/5/24	Sun 4/5/25	_													
66	Completion of Works in Section 8	0 days Sun 4/5/25	Sun 4/5/25														
67	Section of Works 9 - Portion 17	730 days Sun 27/2/22	Mon 26/2/24														
58	Portion 17	730 days Sun 27/2/22	Mon 26/2/24														
69	Provision of site access [212 days after starting date as per Contract]	0 days Sun 27/2/22	Sun 27/2/22														
70	Deferred possession	30 days Sun 27/2/22	Mon 28/3/22	_													
71	Slope inspection & assessment work & Tree Survey	23 days Tue 29/3/22	Wed 20/4/22	_													
72	Mobilization, access& Site Clearance	15 days Thu 21/4/22	Thu 5/5/22	_													
73	Time Risk Allowance	14 days Fri 6/5/22	Thu 19/5/22	_													
74	Demolition and removal of disused water pipe and sprinkler system	50 days Fri 20/5/22 580 days Sat 9/7/22	Fri 8/7/22 Thu 8/2/24														
75	Reinstatement of joint sealant Slope Works at Feature No. 11NE-D/C982 (235m)	3 days Sat 9///22	Mon 18/12/23	_													
76 77	Installation of display sign for slope registration no. x2	3 days Sat 16/12/23	Mon 18/12/23	_													
78	Slope Works at Feature No. 11NE-D/C1005 (230m)	2 days Tue 19/12/23	Wed 20/12/23	_													
70 79	Installation of display sign for slope registration no. x2	2 days Tue 19/12/23	Wed 20/12/23														
79 80	Slope Works at Feature No. 11NE-D/C872 (250m)	68 days Thu 21/12/23	Mon 26/2/24														
80 81	Filling of void with concrete	8 days Thu 21/12/23	Thu 28/12/23														
82	Installation of hand railings	60 days Fri 29/12/23	Mon 26/2/24	_													
83	Installation of non-biodegradable erosion control mat with hydroseeding	44 days Sun 14/1/24	Mon 26/2/24	-													
84	Installation of display sign for slope registration no. x2	3 days Sat 24/2/24	Mon 26/2/24	_													
85	Reinstatement of concrete berm	7 days Tue 20/2/24	Mon 26/2/24	_													
86	Repairing of handrailing	7 days Tue 20/2/24	Mon 26/2/24	-													
87	Slope Works at Feature No. 11NE-D/C948 (310m)	150 days Sat 9/7/22	Mon 5/12/22	_													
88	Construction of concrete berm	150 days Sat 9/7/22	Mon 5/12/22														
89	Repainting of existing steel maintenance staircase	8 days Mon 28/11/22	Mon 5/12/22	-													
390	Construction of wire mesh	52 days Sat 15/10/22	Mon 5/12/22														
391	Installation of display sign for slope registration no. x2	2 days Sun 4/12/22	Mon 5/12/22														
92	Slope Works at Feature No. 11NE-D/C981 (390m)	52 days Tue 6/12/22	Thu 26/1/23		_												
93	Construction of concrete berm	16 days Wed 11/1/23	Thu 26/1/23		11	1/1					26/1						
94	Installation of hand railings	16 days Wed 11/1/23	Thu 26/1/23		11	1/1					26/1						
95	Construction of wire mesh	52 days Tue 6/12/22	Thu 26/1/23								26/1						
96	Installation of display sign for slope registration no. x2	2 days Wed 25/1/23	Thu 26/1/23	_					25/1		26/1						
97	Slope Works at Feature No. 11NE-D/C949 (603m)	92 days Fri 27/1/23	Fri 28/4/23	_						07/4				4.0/0			
98	Filling of voids with concrete	15 days Fri 27/1/23	Fri 10/2/23	_						27/1 🎽				10/2			
99	Construction of concrete berm	25 days Sat 11/2/23	Tue 7/3/23 Tue 7/3/23	_									11/	2	24/	2	
00	Installation of hand railings Construction of wire mesh	15 days Tue 21/2/23 50 days Wed 8/3/23	Wed 26/4/23	_											21/	2	
01 02	Installation of display sign for slope registration no. x2	2 days Thu 27/4/23	Fri 28/4/23	_													
02	Slope Works at Feature No. 11NE-B/C899 (69m)	104 days Sat 29/4/23	Thu 10/8/23	_													
03	Filling of voids with concrete	16 days Sat 29/4/23	Sun 14/5/23	_													
05	Construction of concrete berm	17 days Mon 15/5/23	Wed 31/5/23	_													
06	Installation of hand railings	24 days Thu 1/6/23	Sat 24/6/23	-													
07	Installation of non-biodegradable erosion control mat with hydroseeding	38 days Sun 25/6/23	Tue 1/8/23	_													
08	Installation of display sign for slope registration no. x2	2 days Wed 2/8/23	Thu 3/8/23	-													
09	Repairing of handrailing	7 days Fri 4/8/23	Thu 10/8/23	-													
10	Slope Works at Feature No. 11NE-D/C1000 (80m)	2 days Fri 11/8/23	Sat 12/8/23	-													
)11	Installation of display sign for slope registration no. x1	2 days Fri 11/8/23	Sat 12/8/23	_													
12	Slope Works at Feature No. 11NE-D/C989 (270m)	3 days Sun 13/8/23	Tue 15/8/23	_													
13	Installation of display sign for slope registration no. x2	3 days Sun 13/8/23	Tue 15/8/23														
14	Slope Works at Feature No. 11NE-D/C983 (215m)	16 days Wed 16/8/23	Thu 31/8/23														
15	Construction of concrete berm	7 days Wed 16/8/23	Tue 22/8/23														
16	Installation of hand railings	7 days Wed 23/8/23	Tue 29/8/23														
917	Installation of display sign for slope registration no. x2	2 days Wed 30/8/23	Thu 31/8/23														
	Slope Works at Feature No. 11NE-B/C1013 (340m)	106 days Fri 1/9/23	Fri 15/12/23														

5/3	March 12/3	n 2023	19/3	26/3
7/3				
8/3				

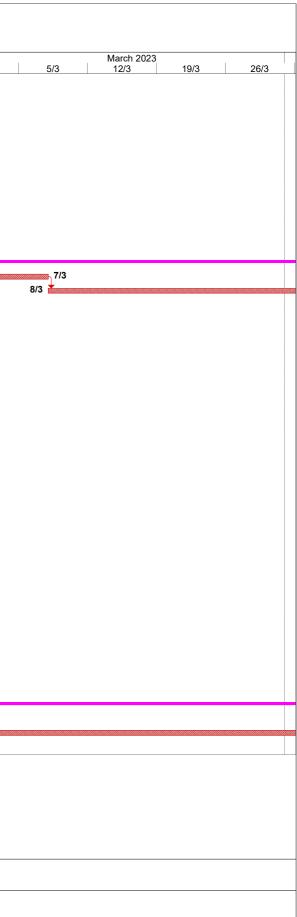
	International Water & Electric Corp.			Development	t of Anderson I	Road Quarry	Site - Infr		Freening a	nd Landsc	ape Works			
					Re	evised Works	Program	me : October	r 2022					
ID	Task Name	Duration Start	Finish	1/1	8/1	anuary 2023 15/1	I	22/1	29/	1	5/2	February 2023 12/2	19/2	
919	Construction of concrete maintenance staircase with hand railings	34 days Fri 1/9/23	Wed 4/10/23	1/1	0/1	10/1		22/1	23/		5/2	12/2	13/2	
920	Construction of wire mesh	36 days Thu 5/10/2	23 Thu 9/11/23											
921	Construction of concrete berm	17 days Fri 10/11/	23 Sun 26/11/23	-										
922	Installation of hand railings	17 days Mon 27/1	I/23 Wed 13/12/23	_										
923	Installation of display sign for slope registration no. x2	2 days Thu 14/12	/23 Fri 15/12/23	_										
924	Slope Works at Feature No. 11NE-B/C1014 (95m)	3 days Sat 24/2/2	4 Mon 26/2/24	_										
925	Installation of display sign for slope registration no. x1	3 days Sat 24/2/2	4 Mon 26/2/24	_										
926	Slope Works at Feature No. 11NE-B/C900 (335m)	226 days Sat 9/7/22	Sun 19/2/23	_										
927	Installation of non-biodegradable erosion control mat with hydroseeding	60 days Tue 6/12/2								3/2				
928	Installation of hand railings	150 days Sat 9/7/22	Mon 5/12/22	-										
929	Installation of display sign for slope registration no. x2	2 days Sat 4/2/23		-						4/2	5/2			
930	Reinstatement of concrete berm	7 days Mon 6/2/2		-						6/2		12/2		
931	Repairing of handrailing	7 days Mon 13/2/		-						0.2		13/2	19/2	
932	Slope Works at Feature No. 11NE-B/C901 (290m)	121 days Mon 20/2		-										
933	Filling of void with concrete	16 days Mon 20/2/		-								20	0/2	
934	Installation of non-biodegradable erosion control mat with hydroseeding	46 days Wed 8/3/2		-								_		
935	Construction of lockable gate	7 days Sun 23/4/		-										
936	Installation of hand railings	36 days Sun 30/4/		-										
937	Installation of display sign for slope registration no. x1	2 days Mon 5/6/2		-										
938	Reinstatement of concrete berm	7 days Wed 7/6/2		-										
939	Repairing of handrailing	7 days Wed 14/6		-										
940	Slope Works at Feature No. 11NE-B/C902 (360m)	248 days Wed 21/6		-										
940	Filling of void with cement soil	28 days Wed 21/6		-										
941	Filling of void with concrete	18 days Wed 19/7		-										
942	Construction of concrete berm	18 days Sun 6/8/2		_										
943	Installation of hand railings	18 days Thu 24/8/2		_										
944	Repainting of existing steel maintenance staircase	14 days Mon 11/9/		_										
945	Installation of display sign for slope registration no. x2	3 days Mon 25/9/		-										
940	Slope Works at Feature No. 11NE-B/C903 (105m)	35 days Mon 23/3/ 35 days Thu 28/9/		_										
947	Installation of non-biodegradable erosion control mat with hydroseeding	33 days Thu 28/9/		_										
940	Installation of display sign for slope registration no. x1	2 days Tue 31/10		_										
949 950	Slope Works at Feature No. 11NE-B/C224 (40m)	9 days The 2/11/		_										
950 951	Installation of display sign for slope registration no. x1	2 days Thu 2/11/2		_										
951 952	Reinstatement of sprayed concrete	7 days Sat 4/11/2		_										
952 953	Slope Works at Feature No. 11NE-B/C225 (60m)	105 days Sat 4/11/2		_										
953 954	Demolition and removal of existing damaged U-channel	22 days Sat 11/11		_										
954 955	Construction of 225 mm U channel (60m)	60 days Sun 3/12/		_										
955	Installation of display sign for slope registration no. x1	2 days Thu 1/2/2		_										
956 957	Reinstatement of sprayed concrete	7 days Sat 3/2/24		_										
	Reinstatement of sprayed concrete Reinstatement of damaged granite stone planter wall and granoite stone facing	14 days Sat 3/2/24		_										
958 959	Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9	365 days Mon 26/2		_										
909	of the Works	JUJ UAYS WOR 20/2	27 MUII 24/2/20											
960	Commencement of Establishment Work for Section 9	0 days Mon 26/2/	24 Mon 26/2/24											
961	Establishment Work Duration for Section 9	365 days Mon 26/2/	24 Mon 24/2/25											
962	Completion of Works in Section 9	0 days Mon 24/2/	25 Mon 24/2/25											
963	Section of Works 10 - All Tree Protection and Preservation Works	922 days Fri 30/7/2	1 Tue 6/2/24											
964	Commencement of All Tree Protection and Preservation Work	0 days Fri 30/7/2	1 Fri 30/7/21											
965	All Tree Protection and Preservation Work Duration for Section 10	922 days Fri 30/7/2	1 Tue 6/2/24											
966	Completion of All Tree Protection and Preservation Work	0 days Tue 6/2/24	4 Tue 6/2/24											

China International Water Task Electric Corp.

Critical Task

.....

Updated on: 28 Octt 2022





Contract 5 (NE/2019/02)

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx

Major Activities in Coming 3 Months

Contract No. ED/2019/02

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

3 Months Rolling Programme (Dec 22 - Mar 22).

Activity		Dec 22			Jan 23				Feb 2		-		1	Mar 23		
	Date	19 - 24	26 - 31	2-7	9-14	16-21	23 - 28	30-4	6+11	15 - 18	19-24	27-4	6 - 11	13 - 18	20 - 25	27+1
1.0 Portion 1													1			
1.1 Construction of Pier at E5-PC1 (2 pour)	î			Ì	1			-	12			1	1			
1.2 Backfill of pile cap at E5-PC1									1	Ť						
1.3 Erection scaffolding for Pier Head & Escalator Trough								I			3	-	1	1		
1.4 Form Lower Piling Platform at E5 - PC2	1							I				1	1			
1.5 Piling Work at E5-PC2			1. 21		1		2					1	1			
1.6 Excavation of Pile Cap E5-PC2							1	1	1	1						
1.7 Construction of Pile Cap E5-PC2								I			e	-	1			
1.8 Construction of Pier at E5-PC2 (1 pour)								I								
1.9 Replace existing slope soil by Grade 200 Rockfill at E5 PC	3	7.5			100	24	6. 1	-	1			1	1	_		
1.10 Construction of Pile Cap at E5-PC3 & abutment										-		-	-	1		
2.0 Portion 2								I				1				
2.1 Construction of Pile Cap at E6-PC1								I				1	1			
2.2 Construction of Pier at B6-PC1 (2 pours)	- 3	- 22			100	100	÷.					L	1			
2.3 Backfill & erect falsework at B6-PC1							1		-	-						
2.4 Construction of Pier Head at B6-P1												-	-			
2.5 Installation of Bearing at B6-P1								I						-	•	
2.6 Construction of Esclator Trough from E6 - PC1 to PC2								I				1		(internet)		
2.6 Backfill the pile cap E6-PC3	-		-									1	1			
2.7 Construction of abutment at E6-PC3					-	-	e 1						1			
2.8 Construction of Pile Cap at E6-PC2			-		1	16 m						1	1			
2.9 Construction of Pier at B6-PC2 (1 pour)									ļ			1	1			
2.10 Backfill & erect falsework for Bacalator Trough PC2 -PC3	3									-			1			
2.11 Construction of Escalator Trough from B6 - PC3 to PC2								I				-	-	-		
3.0 Portion 3								I								
3.1 Install mini-piles at 72mPD & temp. soldier piles for 69mPD pist	tform		_					I				1	1			
3.2 Lower down slope to form piling platform at +69.0mPD					-								1			
3.3 Install mini-pile at +69mPD Platform			-		-	-		_	-	-		-	-			
3.4 Pile Loading Test													-			
3.5 Excevation of pile cap at E7-PC1					1										1	-
3.6 Installation of ELS and excavation at E7-F2					1											
3.7 Construction of footing at E7-P2						-			-							
3.8 Construction of Pier at E7-P1 (3 pours)										-	-	-	-	-		
4.0 Portion 4					1											
4.1 Rock mapping					1											
4.2 Construction of footing E10-F1			-				-									
4.3 Construction of 1st Pour of Lift Tower																
4.4 Backfill no-fine concrete and fill material up to ground level									· · · · ·	1	1	-	-	1		



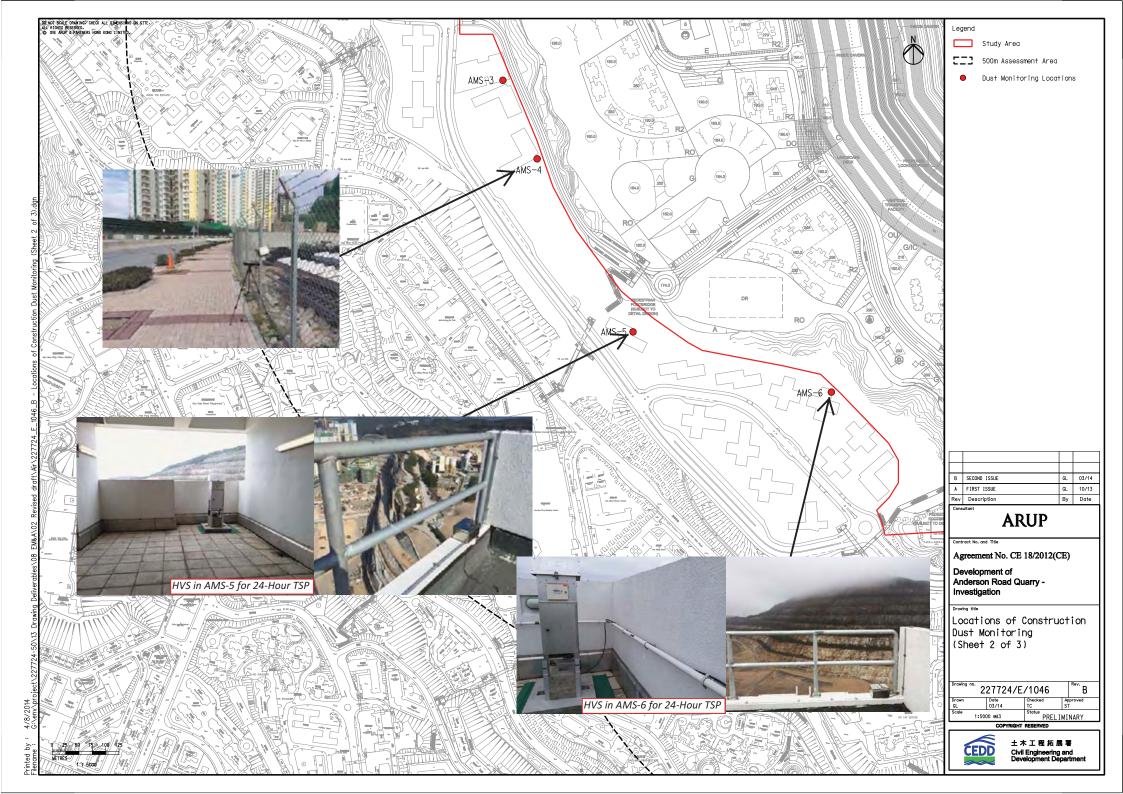
Appendix D

Monitoring Locations for Impact Monitoring

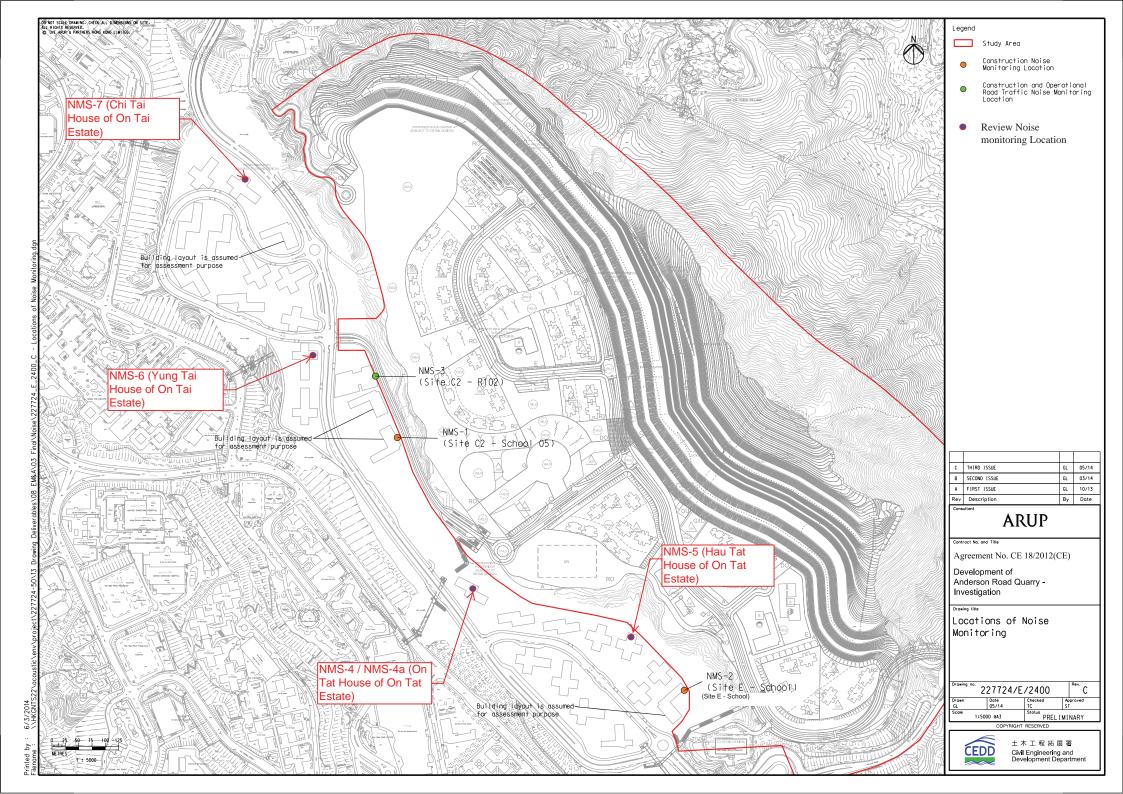


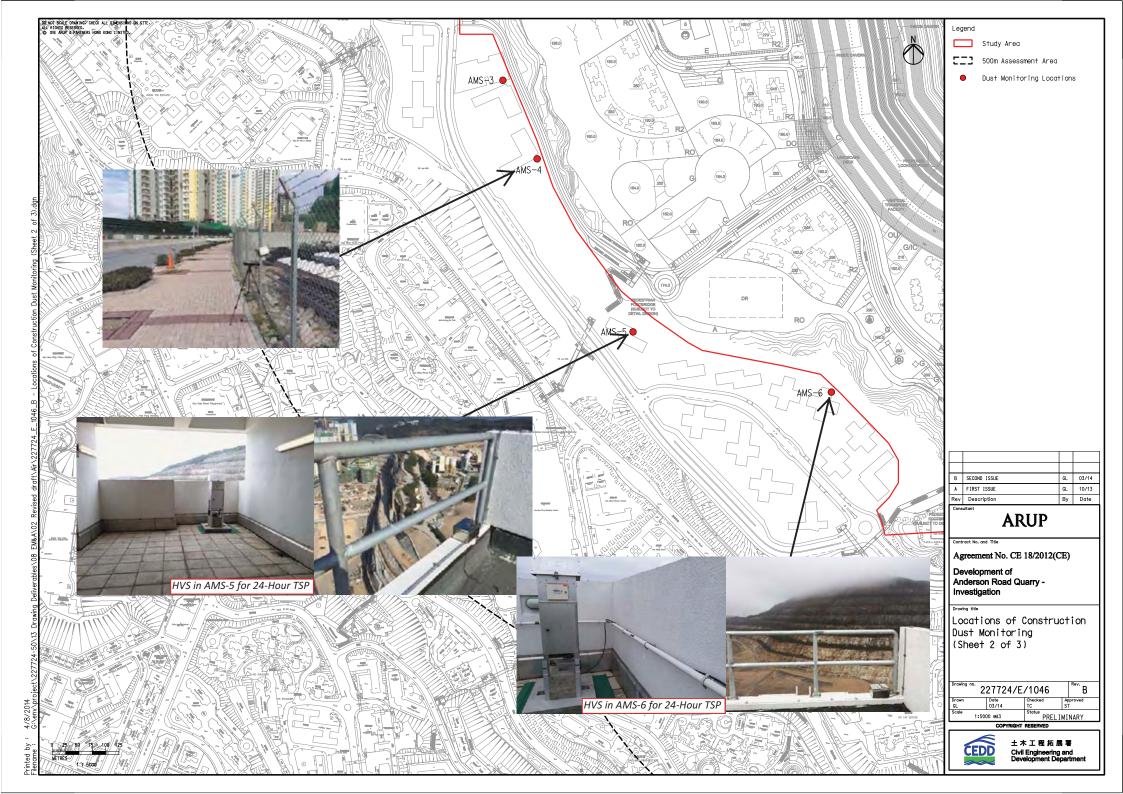
Monitoring Locations for Contract 1 (NE/2016/01)

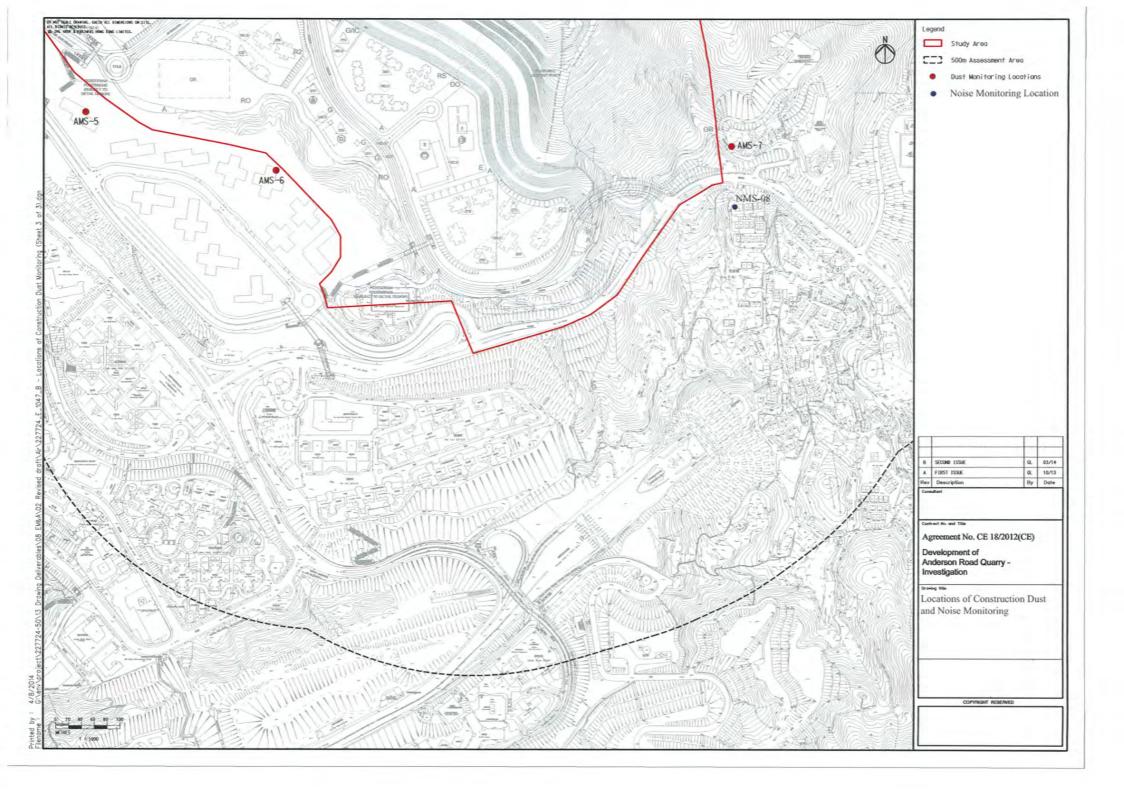






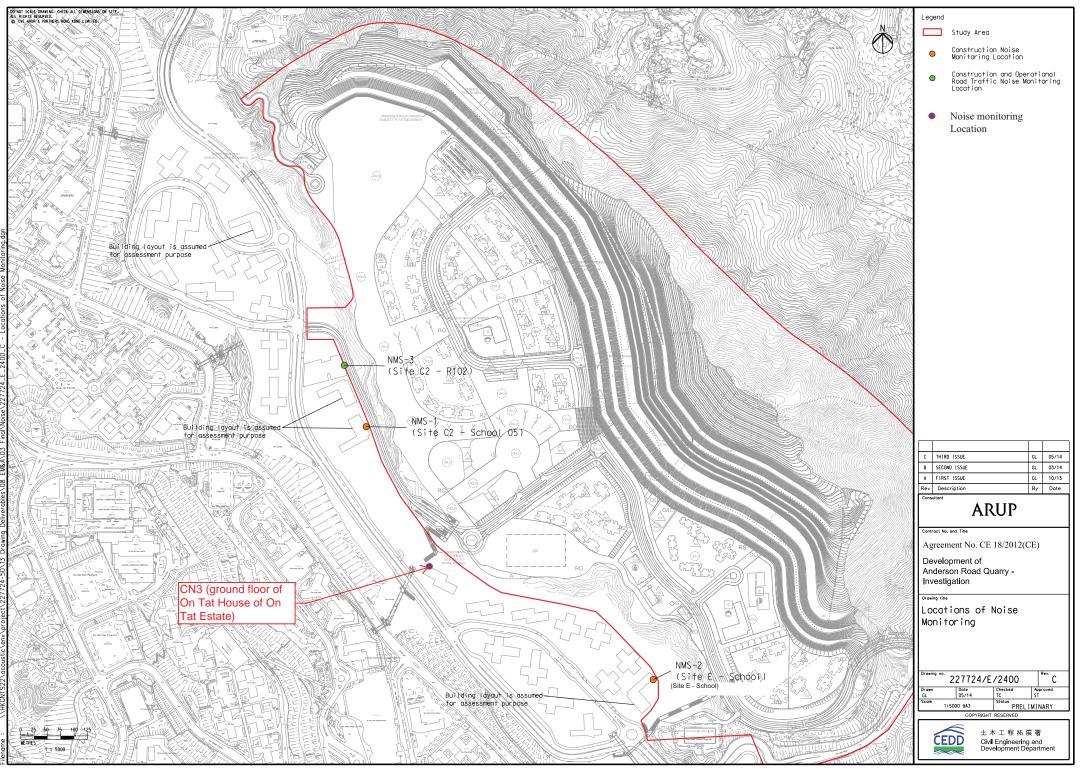






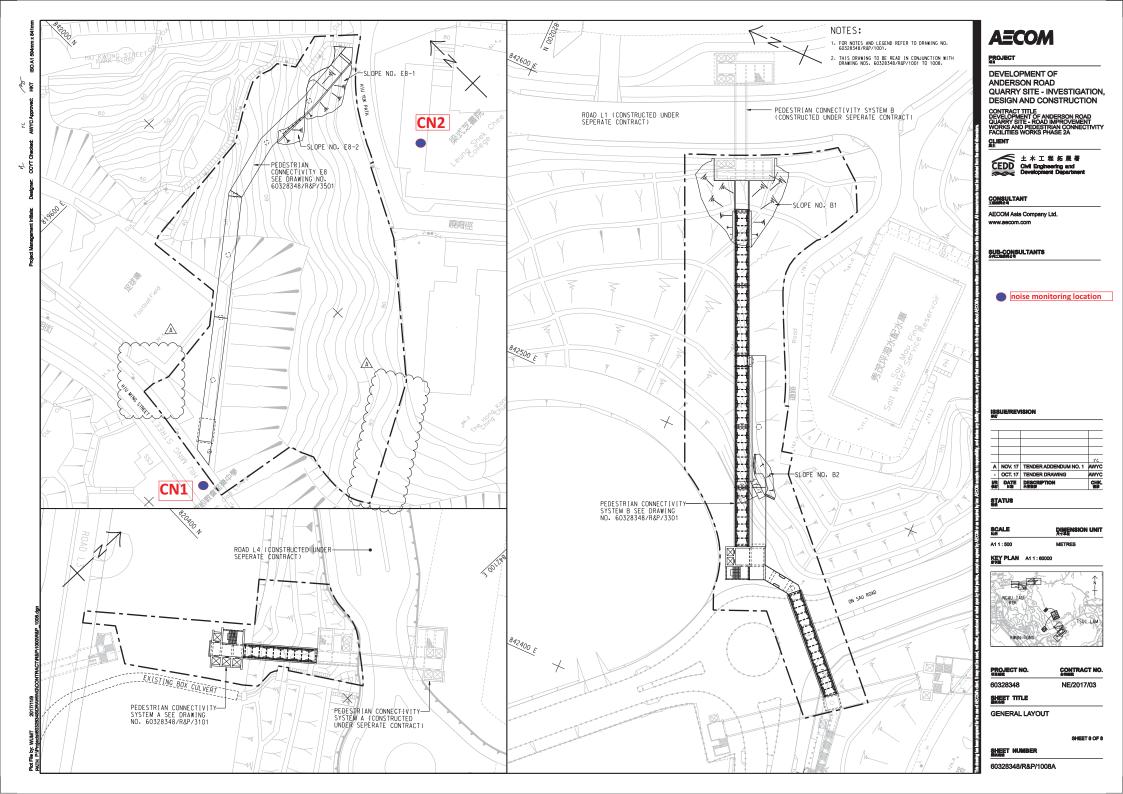


Monitoring Locations for Contract 3 (NE/2017/03)



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

2012





Appendix E

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

Location I		AMS1a]	Next Calibr	
Model:TIS	SCH High V	/olume Air	Sampler T	E-5170	CONDITIO		Fechnician: Mr. Fai So
			el Pressure mperature	. ,	<u>1014.2</u> 25.7		Corrected Pressure (mm Hg) 760.65 Temperature (K) 299
				CALI	BRATION (ORIFICE	
				Make-> Model-> Serial # ->	TE-5025A]	Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903
					CALIBRATI	ON	
Plate No.							LINEAR REGRESSION
18 13 10	6.3 5.2 4	6.3 5.2 4	12.6 10.4 8	1.779 1.617 1.419	52 44 36	corrected 51.96 43.97 35.97	Slope = 36.4684 Intercept = -14.3211 Corr. coeff. = 0.9967
7 5	2.4 1.5	2.4 1.5	4.8 3	1.100 0.871	26 18	25.98 17.99	
	o ns : n[Sqrt(H20 t(Pa/Pstd)(7		std/Ta))-b]			60.00	FLOW RATE CHART
IC = corre I = actual	ndard flow cted chart r chart respoi ator Qstd sl	respones nse				50.00 -	
b = calibra Ta = actua	ator Qstd in Il temperatu ual pressure	tercept ire during c				400.04 Actual chart response (IC) 00.05 00	
	e quent calc Sqrt(298/Ta			ow:		Actual ct O 0.02	
I = chart r	ler intercept esponse					10.00 -	
	y average to y average p					0.00	00 0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)

Location :	Oj	i Tat Hou	ise				Date of C	Calibration: 29-Oct-22		
Location I		AMS 5				l		ration Date: 29-Dec-22		
Model:TIS	SCH Hig	h Volum	e Air Sa	mpler TE-5				Technician: Mr. Fai So		
						COND	ITIONS			
	Sea Level Pressure (hPa) Temperature (°C)]	Corrected Pressure (mm Hg)760.65Temperature (K)299		
	CALIBRATION ORIFICE									
	Make-> TI Model-> TE Serial # -> 19							Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903		
					C	CALIBI	RATION			
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC	LINEAR		
No.	(in)	(in)	(in)	(m3/min)		nart)	corrected			
18	6.4	6.4	12.8	1.793		56	55.96	Slope = 42.8943		
13 10	5.2 4	5.2 4	10.4 8	1.617 1.419		47 38	46.96 37.97	Intercept = -21.9476 Corr. coeff. = 0.9988		
10 7	2.6	2.6	5.2	1.1419		27	26.98	0.2200		
5	1.5	1.5	3	0.871		16	15.99			
51.51.530.871Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responseI = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd slopeb = calibrator Qstd interceptTa = actual temperature during calibration (deg KPstd = actual pressure during calibration (mm HgFor subsequent calculation of sampler flow:				g K Hg j	0.06 Actual chart response (IC) 0.06 0.05 0.02	00	FLOW RATE CHART			
1/m((I)[S	•		-			10.0	00			
m = samplb = samplI = chart reTav = dailPav = dail	ler interco response ly average	e tempera				0.0	0.000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)		

Location	: Ha	u Tat Ho	ouse						29-Oct-22		
Location 2		AMS 6				ľ			29-Dec-22		
Model:TI	SCH Hig	h Volum	e Air Sa	mpler TE-5				echnician:	Mr. Fai So		
					(CONDIT	TIONS				
	С.	o I ovol 1	Duaganua	$(\mathbf{h}\mathbf{D}_{2})$		1014.2	1	Como	atad Duaganna (760.65
	56	a Level I	Pressure perature	. ,		<u>1014.2</u> 25.7			cted Pressure (Temperature (760.65
		TCHIL	Jeralure	(\mathbf{C})		23.1]			K)	299
				C	ALI	BRATIO					
				Make->	TIS	CH]	Ç	Std Slope ->		1.99838
				Model->				Qstd	l Intercept ->		-0.00903
				Serial # ->	1941	1					
					C	CALIBR	ATION				
Plate	Plate H20 (L)H2O (R) H20 Qstd					Ι	IC		LINEA	AR	
No.	(in)	(in)	(in)	(m3/min)	(C	hart)	corrected		REGRESS	REGRESSION	
18	6.3	6.3	12.6	1.779		54	53.96		Slope = 44.1279		
13	5.3	5.3	10.6	1.633		44	46.00	Intercept = -25.2041			
10	3.6	3.6	7.2	1.346		34	33.97	Corr. coeff. = 0.9992			
7	2.5	2.5	5	1.123		25	24.98				
5	1.5	1.5	3	0.871		13	12.99				
Calculatio								FLOW	RATE CHAR	т	
Qstd = 1/1				/Ta))-b]		60.0	00 -				
IC = I[Sq;	rt(Pa/Pstc	1)(Tstd/1	[a)]								•
Qstd = sta	andard flo	w rate				50.0	00				\vdash
IC = correction			es								
I = actual		_				<u>ට</u> 40.0	0				
m = calib		-				e) 40.0					
b = calibr	ator Qstd	intercep	t			noqe				*	
Ta = actu	al temper	ature du	ring cali	bration (deg	g K [² τ	00		/		
Pstd = act	tual press	ure durir	ng calibr	ation (mm]	Hg)	l cha			•		
For subs	eauent c	alculatio	n of san	npler flow:		Actual chart response (IC) 30.00 20.00	00				
1/m((I)[-			-							
	<u> </u>	~ `				10.0	00		•		
m = samp	ler slope										
b = samp	ler interc	ept									
I = chart 1	-					0.0	0.000	0.500	1.000	1.500	2.000
Tav = dai							0.000		d Flow Rate (m3/n		2.000
Pav = dai	ly averag	e pressui	e		l						
1											

Location :		-	Village					Calibration:			
Location I		AMS 7				Ν			29-Dec-22		
Model:TIS	SCH High	Volum	e Air Sa	mpler TE-5	170			Technician:	Mr. Fai So		
					CO	NDI	TIONS				
							1				
	Sea	Level I	Pressure	(hPa)		14.2		Correc	cted Pressure	(mm Hg)	760.65
		Temp	erature	(°C)	4	25.7		1	Temperature	(K)	299
				C	ALIBR	ATIC		E			
				i			1				
				Make->					2std Slope ->		1.99838
				Model->		25A		Qstd	l Intercept ->		-0.00903
				Serial # ->	1612						
					CAI	LIBR	RATION				
DI			1120	0.1	Ŧ		TG		1.0.15		
Plate	H20 (L)H			Qstd	I		IC		LINE		
No.	(in)	(in)	(in)	(m3/min)	(char	,	corrected		REGRE		
18	6.4	6.4	12.8	1.793	56				Slope = 43.7083		
13	5.4	5.4	10.8	1.648	47				Intercept = -23.5704 Corr. coeff. = 0.9979		
10	3.7	3.7	7.4	1.365	36		35.97		Corr. coerr. = 0.9979		
7	2.7	2.7	5.4	1.166	28		27.98				
5	1.8	1.8	3.6	0.953	18		17.99				
Calculatio											
			td)(Tatd	/፹	ſ						
Qstd = 1/r IC = I[Sqr				/1a)) - 0]		FLOW RATE CHART					
IC = I[Sqr	u(ra/rsiu)	(1510/1	a)]								•
Qstd = sta	ndard flou	u rota									
Qsiu – sia IC = corre			20				50.00				
I = actual		-	65								
m = calibr	-					<u></u>	40.00			_/	
b = calibra	-	-	t) est	40.00 30.00 20.00			*	
				bration (de	σK)	spor					
	-		-	ation (mm		r e	30.00		•		
i sta uot	aar pressa	ie daim			115 /	cha					
For subse	equent cal	culatio	n of san	npler flow:		tual	20.00		/		
	-			-		Ac			•		
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)											
m = sampl	ler slope						10.00				
_	b = sampler intercept										
I = chart r		r •					0.00				
T = chart T Tav = dail	-	temper	ature				0.000	0.500	1.000 ard Elow Pate (n	1.500	2.000
Pav = dail		-			Į			อเลกด	ard Flow Rate (n	no/IIIII)	



RECALIBRATION DUE DATE:

December 27, 2022

	Ce	rtifa	Calibration				ntion	
Cal. Date:	December	27 2021		meter S/N:		Ta:	°K	
		27, 2021	ROOLS	meter 5/14.	436320			
Operator:	Jim Tisch					Pa:	740.4	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3890	3.2	2.00	
	2	3	4	1	0.9760	6.4	4.00	
	3	5	6	1	0.8740	7.9	5.00	
	4	7	8	1	0.8320	8.8	5.50	
	5	9	10	1	0.6870	12.7	8.00	
				Data Tabula	tion			
			$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	$\frac{1}{1}$ $\left(\frac{\text{Tstd}}{\text{Ta}}\right)$		Qa	√∆H(Ta/Pa)	
	Vstd (m3)	Qstd (x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9799	0.7055	1.40	1	0.9957	0.7168	0.8927	
	0.9756	0.9996	1.98		0.9914	1.0157	1.2624	
	0.9736	1.1140	2.21	1	0.9893	1.1320	1.4114	
	0.9724	1.1688	2.32	65	0.9881	1.1876	1.4803	
	0.9673	1.4079	2.80	1	0.9828	1.4306	1.7853	
		m=	1.998			m=	1.25135	
	QSTD	b=	-0.00		QA	b=	-0.00574	
		r=	0.999	999		r=	0.99999	
			(m	Calculation				
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	a)	Conception of the local division of the loca	ΔVol((Pa-Δ Va/ΔTime	P)/Pa)	
	Q3tu-	vstu/Anne	For subsequ	lent flow ra	te calculation			
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ \ (Pa <u>Tstd</u> Pstd Ta	The second s		1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						I
Tstd:	298.15	°K		Ι		RECA	LIBRATION	
Pstd:	Contraction of the second seco	mm Hg			LIS EPA reco	mmende	nnual recalibratio	n ner 1000
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part 5	
		eter reading					, Reference Meth	
Ta: actual al	osolute tem	perature (°K)					ended Particulate	
		ressure (mm	Hg)				ere, 9.2.17, page 3	
b: intercept				l			,	
m: slope								

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)467-9005

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2212658
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
DDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 8-APR-2022
	- ,,	DATE OF ISSUE : 14-APR-2022
ROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) 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	
Ki hard 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

: HK2212658

¹ ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2212658-001	S/N: 456659	AIR	08-Apr-2022	S/N: 456659

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	456659
Equipment Ref:	EQ116

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	22 February 2022

Equipment Verification Results:

1 & 7 March 2022

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
7-Mar-22	2hr01mins	09:17 ~ 11:18	22.5	1010.6	26.4	1742	14.4
7-Mar-22	2hr01mins	11:24 ~ 13:25	22.5	1010.6	34.8	1547	12.8
7-Mar-22	2hr01mins	13:30 ~ 15:31	22.5	1010.6	40.3	1994	16.5
1-Mar-22	30mins	10:03 ~ 10:33	22	1016.9	123.1	1677	55.9
1-Mar-22	31mins	10:39 ~ 11:10	22	1016.9	93.9	1578	51.6

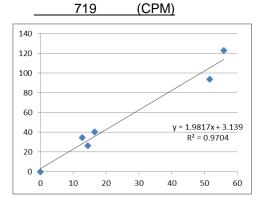
(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 726 (CPM)

Linear Regression of Y or X

Slope (K-factor): _____ Correlation Coefficient (R) ____

<u>1.9817 (μg/m³)/CPM</u> 0.9851 26 March 2022



Remarks:

Date of Issue

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

2. Factor 1.9817 (µg/m³)/CPM should be apply for TSP monitoring

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

Operator :	Fai So	Signature :	Ja	Date :	26 March 2022	
QC Reviewer :	Ben Tam	Signature :	-	Date :	26 March 2022	

Location : Location ID :	Gold Ki Calibrat	-		Calibration: 22-Feb-22 ration Date: 22-May-22				
					COND	ITIONS		
Sea Level Pressure (hPa) 10 Temperature (°C)							Corrected Pressure Temperature	
				CALI	BRAT	ION ORIFICE		
		Calibrat	Make-> Model-> ion Date->	TIS 502 27-D	25A		Qstd Slope -> Qstd Intercept -> Expiry Date->	1.99838 -0.00903 27-Dec-22
				C	CALIB	RATION		
	0 (L)H2O (R) in) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINE REGRE	
18 5 13 4 10 3 8 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11.6 9.4 7.2 4.6 2.8	1.713 1.543 1.351 1.080 0.844	5 4 4 3	4	54.13 49.12 44.11 37.09 30.07	Slope = Intercept = Corr. coeff. =	27.3242 7.2177 0.9997
Calculations : Qstd = $1/m[Sc]$ IC = I[Sqrt(Pa Qstd = standar IC = corrected I = actual char m = calibrator b = calibrator Ta = actual ten Pstd = actual ten For subsequent 1/m((I)[Sqrt(m = sampler starts)]	grt(H20(Pa/Ps d/Pstd)(Tstd/T rd flow rate d chart response c Qstd slope Qstd intercep mperature dur pressure durin cat calculation (298/Tav)(Pav slope	a)] es t ting calil g calibra n of sam	bration (de ation (mm		00 90 90 90 90 90 90 90 90 90 90 90 90 9		FLOW RATE CHA	RT
I = chart response Tav = daily average temperature Pav = daily average pressure						0.000	0.500 1.000 Standard Flow Rate (m	1.500 2.000 3/min)

Location : Location I	D :	Gold Ki Calibrat	-	Date of Calibration: 22-Feb-22 Next Calibration Date: 22-May-22				
						COND	ITIONS	
Sea Level Pressure (hPa) 10 Temperature (°C)						010.8 22.8		Corrected Pressure (mm Hg)758.1Temperature (K)296
					CALI	BRATI	ON ORIFICE	E
Make-> TIS Model-> 502 Calibration Date-> 27-De								Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					C	CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	6.2 4.9 3.8 2.4	6.2 4.9 3.8 2.4	12.4 9.8 7.6 4.8	1.771 1.575 1.387 1.104	5 4 4 3	2 4 0 0	52.13 44.11 40.10 30.07 20.05	Slope = 34.6002 Intercept = -9.1434 Corr. coeff. = 0.9958
51.51.53.00.8732Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responesI = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd slopeb = calibrator Qstd interceptTa = 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)						Actual chart response (IC) 07 07 07 07	.00	FLOW RATE CHART
m = sampl b = sampl I = chart r Tav = dail Pav = dail	ler interc esponse y averag	e temper				0	.00 .000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



RECALIBRATION DUE DATE:

December 27, 2022

	Ce	rtifa	Calibration				ntion	
Cal. Date:	December	27 2021		meter S/N:		annan an ann an Adres An Inne Aigeine Inne Station	295	°K
		27, 2021	ROOLS	meter 5/14.	436320			
Operator:	Jim Tisch					Pa:	740.4	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3890	3.2	2.00	
	2	3	4	1	0.9760	6.4	4.00	
	3	5	6	1	0.8740	7.9	5.00	
	4	7	8	1	0.8320	8.8	5.50	
	5	9	10	1	0.6870	12.7	8.00	
				Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(Tstd)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9799	0.7055	1.40	1	0.9957	0.7168	0.8927	
	0.9756	0.9996	1.98		0.9914	1.0157	1.2624	
	0.9736	1.1140	2.21	1	0.9893	1.1320	1.4114	
	0.9724	1.1688	2.32	65	0.9881	1.1876	1.4803	
	0.9673	1.4079	2.80	1	0.9828	1.4306	1.7853 1.25135	
		m=	1.998			m=		
	QSTD	b=	-0.00		QA	b= r=		
		r=	0.999	999				
			(m	Calculation				
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	a)	Conception of the local division of the loca	ΔVol((Pa-Δ Va/ΔTime	P)/Pa)	
	Q3tu-	vstu/Anne	For subsequ	lent flow ra	te calculation			
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ \ (Pa <u>Tstd</u> Pstd Ta	The second s		1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						I
Tstd:	298.15	°K		Ι		RECA	LIBRATION	
Pstd:	Contraction of the second seco	mm Hg			LIS EPA reco	mmende	nnual recalibratio	n ner 1000
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part 5	
		eter reading					, Reference Meth	
Ta: actual al	osolute tem	perature (°K)					ended Particulate	
		ressure (mm	Hg)				ere, 9.2.17, page 3	
b: intercept				l			,	
m: slope								

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)467-9005

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER HK2212657
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 8-APR-2022
		DATE OF ISSUE : 14-APR-2022
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) 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.

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

: HK2212657

¹ ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING : ____



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2212657-001	S/N: 456658	AIR	08-Apr-2022	S/N: 456658

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)				
Location & Location ID:	AUES office (calibration room)				
Equipment Ref:	HVS 018 & HVS 019				
Last Calibration Date:	22 February 2022				

Equipment Verification Results:

1 & 7 March 2022

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
7-Mar-22	2hr01mins	09:17 ~ 11:18	22.5	1010.6	26.4	1004	8.3
7-Mar-22	2hr01mins	11:24 ~ 13:25	22.5	1010.6	34.8	1674	13.8
7-Mar-22	2hr01mins	13:30 ~ 15:31	22.5	1010.6	40.3	1709	14.2
1-Mar-22	30mins	10:03 ~ 10:33	22	1016.9	123.1	1799	60.0
1-Mar-22	31mins	10:39 ~ 11:10	22	1016.9	93.9	1208	39.5

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

2.0261 (µg/m³)/CPM

26 March 2022

0.9927

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) <u>702 (CPM)</u> 711 (C

(CPM)

Date of Issue

Slope (K-factor):

Remarks:

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

Linear Regression of Y or X

Correlation Coefficient (R)

2. Factor 2.0261 (µg/m³)/CPM should be apply for TSP monitoring

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

Operator :	Fai So	Signature :	Ja	Date :	26 March 2022	
QC Reviewer :	Ben Tam	Signature :	-	Date :	26 March 2022	

Location : Location ID :	Gold Ki Calibrat	-		Calibration: 22-Feb-22 ration Date: 22-May-22				
					COND	ITIONS		
Sea Level Pressure (hPa) 10 Temperature (°C)							Corrected Pressure Temperature	
				CALI	BRAT	ION ORIFICE		
		Calibrat	Make-> Model-> ion Date->	TIS 502 27-D	25A		Qstd Slope -> Qstd Intercept -> Expiry Date->	1.99838 -0.00903 27-Dec-22
				C	CALIB	RATION		
	0 (L)H2O (R) in) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINE REGRE	
18 5 13 4 10 3 8 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11.6 9.4 7.2 4.6 2.8	1.713 1.543 1.351 1.080 0.844	5 4 4 3	4	54.13 49.12 44.11 37.09 30.07	Slope = Intercept = Corr. coeff. =	27.3242 7.2177 0.9997
Calculations : Qstd = $1/m[Sc]$ IC = I[Sqrt(Pa Qstd = standar IC = corrected I = actual char m = calibrator b = calibrator Ta = actual ten Pstd = actual ten For subsequent 1/m((I)[Sqrt(m = sampler starts)]	grt(H20(Pa/Ps d/Pstd)(Tstd/T rd flow rate d chart response c Qstd slope Qstd intercep mperature dur pressure durin cat calculation (298/Tav)(Pav slope	a)] es t ting calil g calibra n of sam	bration (de ation (mm		00 90 90 90 90 90 90 90 90 90 90 90 90 9		FLOW RATE CHA	RT
I = chart response Tav = daily average temperature Pav = daily average pressure						0.000	0.500 1.000 Standard Flow Rate (m	1.500 2.000 3/min)

Location : Location I	D :	Gold Ki Calibrat	-	Date of Calibration: 22-Feb-22 Next Calibration Date: 22-May-22				
						COND	ITIONS	
Sea Level Pressure (hPa) 10 Temperature (°C)						010.8 22.8		Corrected Pressure (mm Hg)758.1Temperature (K)296
					CALI	BRATI	ON ORIFICE	E
Make-> TIS Model-> 502 Calibration Date-> 27-De								Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					C	CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	6.2 4.9 3.8 2.4	6.2 4.9 3.8 2.4	12.4 9.8 7.6 4.8	1.771 1.575 1.387 1.104	5 4 4 3	2 4 0 0	52.13 44.11 40.10 30.07 20.05	Slope = 34.6002 Intercept = -9.1434 Corr. coeff. = 0.9958
51.51.53.00.8732Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responesI = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd slopeb = calibrator Qstd interceptTa = 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)						Actual chart response (IC) 07 07 07 07	.00	FLOW RATE CHART
m = sampl b = sampl I = chart r Tav = dail Pav = dail	ler interc esponse y averag	e temper				0	.00 .000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



RECALIBRATION DUE DATE:

December 27, 2022

	Ce	rtifa	Calibration				ntion		
Cal. Date:	December	27 2021		meter S/N:		annan an ann an Adres An Inne Aigeine Inne Station	295	°K	
		27, 2021	ROOLS	meter 5/14.	436320				
Operator:	Jim Tisch					Pa:	740.4	mm Hg	
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1612				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.3890	3.2	2.00		
	2	3	4	1	0.9760	6.4	4.00		
	3	5	6	1	0.8740	7.9	5.00		
	4	7	8	1	0.8320	8.8	5.50		
	5	9	10	1	0.6870	12.7	8.00		
				Data Tabula	tion				
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(Tstd)		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)		
	0.9799	0.7055	1.40	1	0.9957	0.7168	0.8927		
	0.9756	0.9996	1.98		0.9914	1.0157	1.2624		
	0.9736	1.1140	2.21	1	0.9893	1.1320	1.4114		
	0.9724	1.1688	2.32	65	0.9881	1.1876	1.4803		
	0.9673	1.4079	2.80	1	0.9828	1.4306	1.7853		
		m=	1.998			m=	1.25135		
	QSTD	b=	-0.00		QA	b=	-0.00574		
		r=	0.999	999		r=	0.99999		
			(m	Calculation					
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	a)	Conception of the local division of the loca	$\Delta Vol((Pa-\Delta))$	P)/Pa)		
	Q3tu-	vstu/Anne	For subsequ	lent flow ra	Qa= Va/∆Time				
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ \ (Pa <u>Tstd</u> Pstd Ta	The second s		1/m ((√∆H	l(Ta/Pa))-b)		
		Conditions						I	
Tstd:	298.15	°K		Ι		RECA	LIBRATION		
Pstd:	Contraction of the second seco	mm Hg			LIS EPA reco	mmende	nnual recalibratio	n ner 1000	
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part 5		
		eter reading					, Reference Meth		
Ta: actual al	osolute tem	perature (°K)					ended Particulate		
		ressure (mm	Hg)				ere, 9.2.17, page 3		
b: intercept				l			,		
m: slope									

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)467-9005

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2212152
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 8-APR-2022
		DATE OF ISSUE : 14-APR-2022
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

- Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.
- Sample information (Project name, Sample ID, Sampling date/time, etc.) 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	
Ki hard 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

: HK2212152

. .

¹ ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2212152-001	S/N: 3Y6505	AIR	08-Apr-2022	S/N: 3Y6505

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	22 February 2022

Equipment Verification Results:

1 & 7 March 2022

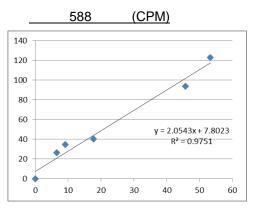
Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
7-Mar-22	2hr01mins	09:17 ~ 11:18	22.5	1010.6	26.4	783	6.5
7-Mar-22	2hr01mins	11:24 ~ 13:25	22.5	1010.6	34.8	1104	9.1
7-Mar-22	2hr01mins	13:30 ~ 15:31	22.5	1010.6	40.3	2134	17.7
1-Mar-22	30mins	10:03 ~ 10:33	22	1016.9	123.1	1599	53.3
1-Mar-22	31mins	10:39 ~ 11:10	22	1016.9	93.9	1397	45.7

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 591 (CPM)

Linear Regression of Y or X

Slope (K-factor):2.0543 (µg/m³)/CPMCorrelation Coefficient (R)0.9875Date of Issue26 March 2022



Remarks:

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

2. Factor 2.0543 (µg/m³)/CPM should be apply for TSP monitoring

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

Operator :	Fai So	Signature :	Ja	Date :	26 March 2022
QC Reviewer :	Ben Tam	Signature :		_ Date :	26 March 2022

Location : Location ID :		-	strial Buildi m	ng, Kv	wai Cł	nung		Calibration: 22-Feb-22 ration Date: 22-May-22
					COND	ITIONS		
	Sea Level I Temp	Pressure erature	· /	1	010.8 22.8		Corrected Pressure Temperature	
				CALI	BRAT	ION ORIFICE		
		Calibrat	Make-> Model-> ion Date->	TIS 502 27-D	25A		Qstd Slope -> Qstd Intercept -> Expiry Date->	1.99838 -0.00903 27-Dec-22
				C	CALIB	RATION		
	0 (L)H2O (R) in) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINE REGRE	
18 5 13 4 10 3 8 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11.6 9.4 7.2 4.6 2.8	1.713 1.543 1.351 1.080 0.844	5 4 4 3	4	54.13 49.12 44.11 37.09 30.07	Slope = Intercept = Corr. coeff. =	27.3242 7.2177 0.9997
Calculations : Qstd = $1/m[Sc]$ IC = I[Sqrt(Pa Qstd = standar IC = corrected I = actual char m = calibrator b = calibrator Ta = actual ten Pstd = actual ten For subsequent 1/m((I)[Sqrt(m = sampler starts)]	grt(H20(Pa/Ps d/Pstd)(Tstd/T rd flow rate d chart response c Qstd slope Qstd intercep mperature dur pressure durin cat calculation (298/Tav)(Pav slope	a)] es t ting calil g calibra n of sam	bration (de ation (mm		00 90 90 90 90 90 90 90 90 90 90 90 90 9		FLOW RATE CHA	RT
I = chart respo Tav = daily av Pav = daily av	verage temper					0.000	0.500 1.000 Standard Flow Rate (m	1.500 2.000 3/min)

Location : Location I	D :	Gold Ki Calibrat	-	strial Buildi m	ng, Kv	wai Ch	lung	Date of Calibration: 22-Feb-22 Next Calibration Date: 22-May-22
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	` ´	1	010.8 22.8		Corrected Pressure (mm Hg)758.1Temperature (K)296
					CALI	BRATI	ON ORIFICE	E
			Calibrat	Make-> Model-> ion Date->	TIS 502 27-D	25A		Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					C	CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINEAR REGRESSION
18 13 10 8 5	6.2 4.9 3.8 2.4 1.5	6.2 4.9 3.8 2.4 1.5	12.4 9.8 7.6 4.8 3.0	1.771 1.575 1.387 1.104 0.873	5 4 4 3	2 4 0 0 0	52.13 44.11 40.10 30.07 20.05	Slope = 34.6002 Intercept = -9.1434 Corr. coeff. = 0.9958
	n[Sqrt(H t(Pa/Psto ndard flo cted cha chart res ator Qsto ator Qsto il temper ual press	d)(Tstd/T ow rate rt respon ponse d slope l intercep rature dur ure durin	a)] es t ing cali g calibr n of sam	bration (de ation (mm		Actual chart response (IC) 07 07 07 07	.00	FLOW RATE CHART
m = sampl b = sampl I = chart r Tav = dail Pav = dail	ler interc esponse y averag	e temper				0	.00 .000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



RECALIBRATION DUE DATE:

December 27, 2022

	Ce	rtifa	Calibration				ntion		
Cal. Date:	December	27 2021		meter S/N:		annan an ann an Adres An Inne Aigeine Inne Station	295	°K	
		27, 2021	ROOLS	meter 5/14.	436320				
Operator:	Jim Tisch					Pa:	740.4	mm Hg	
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1612				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.3890	3.2	2.00		
	2	3	4	1	0.9760	6.4	4.00		
	3	5	6	1	0.8740	7.9	5.00		
	4	7	8	1	0.8320	8.8	5.50		
	5	9	10	1	0.6870	12.7	8.00		
				Data Tabula	tion				
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(Tstd)		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)		
	0.9799	0.7055	1.40	1	0.9957	0.7168	0.8927		
	0.9756	0.9996	1.98		0.9914	1.0157	1.2624		
	0.9736	1.1140	2.21	1	0.9893	1.1320	1.4114		
	0.9724	1.1688	2.32	65	0.9881	1.1876	1.4803		
	0.9673	1.4079	2.80	1	0.9828	1.4306	1.7853		
		m=	1.998			m=	1.25135		
	QSTD	b=	-0.00		QA	b=	-0.00574		
		r=	0.999	999		r=	0.99999		
			(m	Calculation					
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	a)	Conception of the local division of the loca	$\Delta Vol((Pa-\Delta))$	P)/Pa)		
	Q3tu-	vstu/Anne	For subsequ	lent flow ra	Qa= Va/∆Time				
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ \ (Pa <u>Tstd</u> Pstd Ta	The second s		1/m ((√∆H	l(Ta/Pa))-b)		
		Conditions						I	
Tstd:	298.15	°K		Ι		RECA	LIBRATION		
Pstd:	Contraction of the second seco	mm Hg			LIS EPA reco	mmende	nnual recalibratio	n ner 1000	
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part 5		
		eter reading					, Reference Meth		
Ta: actual al	osolute tem	perature (°K)					ended Particulate		
		ressure (mm	Hg)				ere, 9.2.17, page 3		
b: intercept				l			,		
m: slope									

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)467-9005

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2214745
CLIENT	ACTION-UNITED ENVIRONMENTAL	
	SERVICES & CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED : 12-APR-2022
		DATE OF ISSUE : 29-APR-2022
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER

General Comments

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

Signatories

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

Signatories	Position	
Kichard Jong.		
Richard Fung	Managing Director	

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

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

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

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

CLIENT

PROJECT

: HK2214745

¹ ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2214745-001	S/N: 3Y6502	AIR	12-Apr-2022	S/N: 3Y6502

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	22 February 2022

Equipment Verification Results:

1 & 7 March 2022

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
7-Mar-22	2hr01mins	09:17 ~ 11:18	22.5	1010.6	26.4	947	7.9
7-Mar-22	2hr01mins	11:24 ~ 13:25	22.5	1010.6	34.8	1449	12.0
7-Mar-22	2hr01mins	13:30 ~ 15:31	22.5	1010.6	40.3	1874	15.5
1-Mar-22	30mins	10:03 ~ 10:33	22	1016.9	123.1	1709	57.0
1-Mar-22	31mins	10:39 ~ 11:10	22	1016.9	93.9	1401	45.8

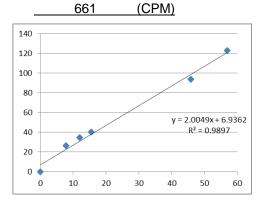
(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 655 (CPM)

Linear Regression of Y or X

Slope (K-factor):

2.0049 (µg/m³)/CPM 0.9948 26 March 2022



Remarks:

Date of Issue

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

2. Factor 2.0049 (µg/m³)/CPM should be apply for TSP monitoring

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

Operator :	Fai So	Signature :	Ja	Date :	26 March 2022	
QC Reviewer : _	Ben Tam	Signature :	-	Date :	26 March 2022	

Location : Location ID :	Gold Ki Calibrat	-		Calibration: 22-Feb-22 ration Date: 22-May-22				
					COND	ITIONS		
	Sea Level I Temp	Pressure erature	. ,	1	010.8 22.8		Corrected Pressure Temperature	
				CALI	BRAT	ION ORIFICE		
		Calibrat	Make-> Model-> ion Date->	TIS 502 27-D	25A		Qstd Slope -> Qstd Intercept -> Expiry Date->	1.99838 -0.00903 27-Dec-22
				C	CALIB	RATION		
	0 (L)H2O (R) in) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINE REGRE	
18 5 13 4 10 3 8 2	5.8 5.8 4.7 4.7 3.6 3.6 2.3 2.3	11.6 9.4 7.2 4.6	1.713 1.543 1.351 1.080	5 4 4 3	4 9 4 7	54.13 49.12 44.11 37.09 30.07	Slope = Intercept = Corr. coeff. =	27.3242 7.2177 0.9997
5 1.4 1.4 2.8 0.844 30 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 II = actual chart response m = calibrator Qstd slope b = 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					00 90 90 90 90 90 90 90 90 90 90 90 90 9		FLOW RATE CHA	RT
I = chart respo Tav = daily av Pav = daily av	verage temper					0.000	0.500 1.000 Standard Flow Rate (m	1.500 2.000 3/min)

Location : Gold King Industrial Building, Kwai Chung Location ID : Calibration Room CONDITIONS								Date of Calibration: 22-Feb-22 Next Calibration Date: 22-May-22
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	` ´	1	010.8 22.8		Corrected Pressure (mm Hg)758.1Temperature (K)296
					CALI	BRATI	ON ORIFICE	E
Make-> TIS Model-> 502 Calibration Date-> 27-De								Qstd Slope -> 1.99838 Qstd Intercept -> -0.00903 Expiry Date-> 27-Dec-22
					C	CALIB	RATION	
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)		[art)	IC	LINEAR REGRESSION
18 13 10 8 5	6.2 4.9 3.8 2.4	6.2 4.9 3.8 2.4	12.4 9.8 7.6 4.8	1.771 1.575 1.387 1.104	5 4 4 3	hart) corrected 52 52.13 44 44.11 40 40.10 30 30.07 20 20.05		Slope = 34.6002 Intercept = -9.1434 Corr. coeff. = 0.9958
51.51.53.00.87320Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responesI = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd interceptTa = 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)						Actual chart response (IC) 07 07 07 07	.00	FLOW RATE CHART
m = sampl b = sampl I = chart r Tav = dail Pav = dail	ler interc esponse y averag	e temper				0	.00 .000	0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)



RECALIBRATION DUE DATE:

December 27, 2022

	Ce	rtifa	Calibration				ntion	
Cal. Date:	December	27 2021		meter S/N:		annan an ann an Adres An Inne Aigeine Inne Station	295	°K
		27, 2021	ROOLS	meter 5/14.	436320			
Operator:	Jim Tisch					Pa:	740.4	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3890	3.2	2.00	
	2	3	4	1	0.9760	6.4	4.00	
	3	5	6	1	0.8740	7.9	5.00	
	4	7	8	1	0.8320	8.8	5.50	
	5	9	10	1	0.6870	12.7	8.00	
				Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(Tstd)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)	
	0.9799	0.7055	1.40	1	0.9957	0.7168	0.8927	
	0.9756	0.9996	1.98		0.9914	1.0157	1.2624	
	0.9736	1.1140	2.21	1	0.9893	1.1320	1.4114	
	0.9724	1.1688	2.32	65	0.9881	1.1876	1.4803	
	0.9673	1.4079	2.80	1	0.9828	1.4306	1.7853 1.25135	
		m=	1.998			m=		
	QSTD	b=	-0.00		QA	b=	-0.00574	
		r=	0.999	999		r=	0.99999	
			(m	Calculation				
		ΔVol((Pa-ΔP) Vstd/ΔTime	/Pstd)(Tstd/T	a)	Va= Qa=	P)/Pa)		
	Q3tu-	vstu/Anne	For subsequ	lent flow ra	te calculation			
	Qstd=	1/m ((\\ \ \ \ \ \ \ \ \ \ \ \ (Pa <u>Tstd</u> Pstd Ta	The second s		1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						I
Tstd:	298.15	°K		Ι		RECA	LIBRATION	
Pstd:	Contraction of the second seco	mm Hg			LIS EPA reco	mmende	nnual recalibratio	n ner 1000
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part 5	
		eter reading					, Reference Meth	
Ta: actual al	osolute tem	perature (°K)					ended Particulate	
		ressure (mm	Hg)				ere, 9.2.17, page 3	
b: intercept				l			,	
m: slope								

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)467-9005



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C221362 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC22-0258)	Date of Receipt / 收件日期: 14 February 2022
Description / 儀器名稱	:	Sound Calibrator (EQ089)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NC-75	8
Serial No. / 編號	:	34680623	
Supplied By / 委託者	:	Action-United Environmental Services a	and Consulting
		Unit A, 20/F., Gold King Industrial Buil	lding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	J.T.
Serial No. / 編號	:	34680623 Action-United Environmental Services a Unit A, 20/F., Gold King Industrial Buil	lding,

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 : 12 March 2022

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

- Fluke Everett Service Center, USA
- Agilent Technologies / Keysight Technologies

Tested By 測試	K C Lee Engineer			
Certified By 核證	: <u>Chur Chan</u> H C Chan Engineer	Date of Issue 簽發日期	:	16 March 2022

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. : C221362 證書編號

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

Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C213954 AV210017 C201309

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

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.25	± 0.2

5.2 Frequency Accuracy

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

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

Note :

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

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

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.



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C221363 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC22-0258)	Date of Receipt / 收件日期: 14 February 2022
Description / 儀器名稱	:	Sound Level Meter (EQ067)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-31	
Serial No. / 編號	:	00410221	
Supplied By / 委託者	:	Action-United Environmental Services an	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ling,
		35-41 Tai Lin Pai Road, Kwai Chung, N.	Т.

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 : 12 March 2022

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
- Fluke Everett Service Center, USA
- Agilent Technologies / Keysight Technologies

Tested By 測試	: K C Lee Engineer			
Certified By 核證	: <u>thm thm</u> <u>C</u> H C Chan Engineer	Date of Issue 簽發日期	:	16 March 2022

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.



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C221363 證書編號

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

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

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

	UU	JT Setting		Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UI	JT Setting		Applied	Value	UUT
Range	Range Mode Frequency Time		Level	Freq.	Reading	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.7

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

6.2 Time Weighting

	UU	T Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 12	D L _A	A	Fast	94.00	1	93.8	Ref.
			Slow			93.7	± 0.3

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C221363 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

		T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	63 Hz	67.5	-26.2 ± 1.5
					125 Hz	77.6	-16.1 ± 1.5
	-				250 Hz	85.1	-8.6 ± 1.4
				ь. Э	500 Hz	90.5	-3.2 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	95.0	$+1.2 \pm 1.6$
					4 kHz	94.9	$+1.0 \pm 1.6$
					8 kHz	92.7	-1.1 (+2.1 ; -3.1)
					16 kHz	87.4	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

		T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	92.8	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.5	-0.2 ± 1.5
					250 Hz	93.7	0.0 ± 1.4
					500 Hz	93.8	0.0 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	93.6	-0.2 ± 1.6
					4 kHz	93.1	$\textbf{-0.8} \pm 1.6$
					8 kHz	90.8	-3.0 (+2.1 ; -3.1)
					16 kHz	85.4	-8.5 (+3.5 ; -17.0)

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



Certificate of Calibration 校正證書

Certificate No. : C221363 證書編號

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

- Mfr's Spec. : IEC 61672 Class 1

				~
- Uncertainties of Applied Value :	94 dB	: 63 Hz - 125 Hz	:	$\pm \ 0.35 \ dB$
		250 Hz - 500 Hz	:	$\pm 0.30 \text{ dB}$
		1 kHz	:	$\pm 0.20 \text{ dB}$
		2 kHz - 4 kHz	:	$\pm \ 0.35 \ dB$
		8 kHz	:	$\pm \ 0.45 \ dB$
		16 kHz	:	$\pm 0.70 \text{ dB}$
	104 dB	: 1 kHz	:	\pm 0.10 dB (Ref. 94 dB)
	114 dB	: 1 kHz	:	\pm 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C221365 證書編號

ITEM TESTED / 送檢項目	(Job No. / 序引編號: IC22-0258) Date of Receipt / 收件日期: 14 February 2022					
Description / 儀器名稱 :	Sound Level Meter (EQ018)					
Manufacturer / 製造商 :	Rion					
Model No. / 型號 :	NL-52					
Serial No. / 編號 :	00809405					
Supplied By / 委託者 :	Action-United Environmental Services 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 ± 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 : 12 March 2022

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
- Fluke Everett Service Center, USA
- Agilent Technologies / Keysight Technologies

Tested By 測試	: K O Lee Engineer			
Certified By 核證	: <u>thun thun C</u> H C Chan Engineer	Date of Issue 簽發日期	:	16 March 2022

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. : C221365 證書編號

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

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

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

UUT Setting			Applied Value		UUT	IEC 61672	
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	Α	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

UUT Setting			Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	Α	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

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

6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672	
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)	_	Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.0	Ref.
			Slow			94.0	± 0.3

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



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C221365 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting			Applied Value U		UUT	IEC 61672	
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.0	$+1.2 \pm 1.6$
					4 kHz	94.7	$+1.0 \pm 1.6$
~					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					16 kHz	85.5	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting			Applied Value		UUT	IEC 61672	
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.6	-0.2 ± 1.6
					4 kHz	92.9	$\textbf{-0.8} \pm 1.6$
					8 kHz	91.0	-3.0 (+2.1 ; -3.1)
					16 kHz	83.5	-8.5 (+3.5 ; -17.0)

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



Certificate of Calibration 校正證書

Certificate No. : C221365 證書編號

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

- Mfr's Spec. : IEC 61672 Class 1

		-
- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	16 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)

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

Note :

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

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

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



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

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

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

Environmental Testing

環境測試

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

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

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

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

Registration Number : HOKLAS 066 註冊號碼 :



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

L001934



Appendix F

Event and Action Plan

Event / Action Plan for construction dust

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



Event and Action Plan for Construction Noise

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



Appendix G

Impact Monitoring Schedule



Impact Monitoring Schedule for the Reporting Period

			Air Qualit	ty Monitoring
	Date	Noise Monitoring (0700 – 1900)	1-hour TSP	24-hour TSP
Thu	1-Dec-22			
Fri	2-Dec-22	\checkmark	\checkmark	
Sat	3-Dec-22			
Sun	4-Dec-22			
Mon	5-Dec-22			
Tue	6-Dec-22			\checkmark
Wed	7-Dec-22			
Thu	8-Dec-22	\checkmark	\checkmark	
Fri	9-Dec-22			
Sat	10-Dec-22			
Sun	11-Dec-22			
Mon	12-Dec-22			\checkmark
Tue	13-Dec-22			
Wed	14-Dec-22	√	\checkmark	
Thu	15-Dec-22			
Fri	16-Dec-22			
Sat	17-Dec-22			✓
Sun	18-Dec-22			
Mon	19-Dec-22			
Tue	20-Dec-22	\checkmark	\checkmark	
Wed	21-Dec-22			
Thu	22-Dec-22			✓
Fri	23-Dec-22		√	
Sat	24-Dec-22			
Sun	25-Dec-22			
Mon	26-Dec-22			
Tue	27-Dec-22			
Wed	28-Dec-22	,	· · · · · · · · · · · · · · · · · · ·	✓
Thu	29-Dec-22	\checkmark	\checkmark	
Fri	30-Dec-22			
Sat	31-Dec-22			

✓	Monitoring Day
	Sunday or Public Holiday



Impact Monitoring Schedule for next Reporting Period

			Air Quali	ty Monitoring
	Date	Noise Monitoring (0700 – 1900)	1-hour TSP	24-hour TSP
Sun	1-Jan-23			
Mon	2-Jan-23			
Tue	3-Jan-23			✓
Wed	4-Jan-23	\checkmark	\checkmark	
Thu	5-Jan-23			
Fri	6-Jan-23			
Sat	7-Jan-23			
Sun	8-Jan-23			
Mon	9-Jan-23			\checkmark
Tue	10-Jan-23	\checkmark	\checkmark	
Wed	11-Jan-23			
Thu	12-Jan-23			
Fri	13-Jan-23			
Sat	14-Jan-23			\checkmark
Sun	15-Jan-23			
Mon	16-Jan-23	√	√	
Tue	17-Jan-23			
Wed	18-Jan-23			
Thu	19-Jan-23			
Fri	20-Jan-23			\checkmark
Sat	21-Jan-23	\checkmark	√	
Sun	22-Jan-23			
Mon	23-Jan-23			
Tue	24-Jan-23			
Wed	25-Jan-23			
Thu	26-Jan-23	-		✓
Fri	27-Jan-23	√	✓	
Sat	28-Jan-23			
Sun	29-Jan-23			
Mon	30-Jan-23			
Tue	31-Jan-23			✓

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

						24-11(JUK I	SI MUNI	UNING KE	SULI DATABA	BL				
24-hour TSF	P Monitoring	g Data for A	AMS1a												
DATE	SAMPLE NUMBER		APSED TIN	ЛЕ	CHAF	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	-	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
6-Dec-22	28938	25537.87	25561.87	1440	42	43	42.5	17.1	1019.7	1.58	2272	2.7705	2.8654	0.0949	42
12-Dec-22	29003	25561.87	25585.87	1440	42	43	42.5	16.2	1018.3	1.58	2273	2.7302	2.8505	0.1203	53
17-Dec-22	29005	25585.87	25609.87	1440	42	43	42.5	13.2	1024.9	1.59	2288	2.7233	2.7639	0.0406	18
22-Dec-22	28939	25609.87	25633.87	1440	42	43	42.5	17.2	1024.9	1.58	2276	2.7677	2.8196	0.0519	23
28-Dec-22	29062	25633.87	25657.87	1440	42	43	42.5	17.7	1022.6	1.58	2272	2.7347	2.8147	0.08	35
24-hour TSF	P Monitoring	g Data for A	AMS-5	•		•		•			•	•		•	•
DATE	SAMPLE NUMBER		APSED TIN			RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	-	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)	MIN	MAX		(°C)	(hPa)	(m³/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
6-Dec-22	28935		13113.84		38	39	38.5	22.8	1019.7	1.42	2038	2.7624	2.8160	0.0536	26
12-Dec-22	29002		13137.84		38	39	38.5	22.8	1018.3	1.41	2030	2.7261	2.8417	0.1156	57
17-Dec-22	29004	13137.84	13161.84	1440.00	38	39	38.5	13.2	1024.9	1.41	2030	2.7378	2.8310	0.0932	46
22-Dec-22	29037	13161.84	13185.84	1440.00	38	39	38.5	17.2	1016.5	1.41	2030	2.7296	2.8202	0.0906	45
28-Dec-22	29059	13185.84	13209.84	1440.00	38	39	38.5	17.7	1022.6	1.41	2030	2.7388	2.8650	0.1262	62
24-hour TSF	P Monitoring	g Data for A	AMS-6												
DATE	SAMPLE NUMBER	ELA	APSED TIN	ЛЕ	CHAF	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	EIGHT (g)	DUST WEIGHT COLLECTED	24-hr TSP
	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
6-Dec-22	28936	18412.69	18436.69	1440.00	40	41	40.5	17.1	1019.7	1.48	2131	2.7744	2.8385	0.0641	30
12-Dec-22	29001	18436.69	18460.69	1440.00	40	41	40.5	16.2	1018.3	1.48	2131	2.7267	2.8370	0.1103	52
17-Dec-22	29006	18460.69	18484.69	1440.00	40	41	40.5	13.2	1024.9	1.48	2131	2.7256	2.7802	0.0546	26
22-Dec-22	29009	18484.69	18508.69	1440.00	40	41	40.5	17.2	1016.5	1.48	2131	2.7197	2.7764	0.0567	27
28-Dec-22	29060	18508.69	18532.69	1440.00	40	41	40.5	17.7	1022.6	1.48	2131	2.7303	2.7963	0.0660	31
24-hour TSF	P Monitoring	Data for A	AMS-7					•			•	•			
DATE	SAMPLE NUMBER	ELA	APSED TIN	ЛЕ		RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI		DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	$(std m^3)$	INITIAL	FINAL	(g)	$(\mu g/m^3)$
6-Dec-22	28931	13266.73			40	41	40.5	17.1	1019.7	1.48	2133	2.7670	2.8086	0.0416	20
12-Dec-22	28779	13290.73	13314.73	1440.00	40	41	40.5	16.2	1018.3	1.48	2134	2.6638	2.7330	0.0692	32
17-Dec-22	29007	13314.73	13338.73	144.00	40	41	40.5	13.2	1024.9	1.49	2134	2.7197	2.7920	0.0723	34
22-Dec-22	29010	13338.73	13362.72	1440.00	40	41	40.5	17.2	1016.5	1.48	2134	2.7197	2.7733	0.0536	25
28-Dec-22	29061	13362.72	13386.72	1440.00	40	41	40.5	17.7	1022.6	1.48	2134	2.7345	2.8411	0.1066	50



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

										Noise Measurement Results (dB) of NMS2													
Noise Measu	uremen	nt Resu	lts (dB)	of NMS2																			
	644	1st	t Leq (5	min)	2nd	Leq (5)	nin)	3rd	Leq (51	nin)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5n	nin)	Leq30	Limit		
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	min,	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)	dB(A)	dB(A)		
2-Dec-22	11:24	62.6	65	56	62.2	65.5	56	61.3	63.5	55	62.9	65	57.5	63.7	65	56.5	62.5	65	56	63	70		
8-Dec-22	11:21	60.9	63.5	58	63.6	66	58.5	60.2	63	58	62.2	65	58	63.5	66	58	62.5	65	56	62	70		
14-Dec-22	11:18	63.6	66	58	62.8	66	58	62.5	66	56	62.6	65	56	61.9	64	56	63.5	65	56.5	63	70		
20-Dec-22	11:12	60.6	63	55	60.2	63	55	61.6	63.5	55.5	62.8	64.5	57	63.5	64.5	57	60.4	63.5	56	62	70		
29-Dec-22	11:21	61.2	63.4	55.1	62.5	63.9	56	60.8	63.1	55.5	60.1	63.2	56.3	62.9	63.9	57	61.2	63.5	55.4	62	70		

Noise Measu	uremer	nt Resul	lts (dB)	of NM	S3																
	Start	1st]	Leq (5n	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	min)	5th	Leq (5r	nin)	6th	Leq (51	nin)	Log20min	Limit
	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)
2-Dec-22	15:49	62.6	63.5	58.0	63.5	65.0	58.5	62.5	65.0	58.5	60.9	63.5	58.0	62.8	63.5	58.0	65.2	67.0	60.0	63	75
8-Dec-22	15:35	61.9	65.1	60.2	62.7	64.3	59.7	65.0	68.1	62.4	66.1	68.5	63.3	62.6	63.8	61.3	63.8	65.1	62.0	64	75
14-Dec-22	15:00	60.9	63.0	56.0	62.8	63.5	57.0	63.2	65.0	58.0	62.5	65.0	58.0	63.2	65.0	58.0	61.5	63.0	57.0	62	75
20-Dec-22	14:47	62.6	65.0	58.0	61.7	65.0	58.0	60.5	63.0	57.0	62.1	63.5	58.0	61.5	63.0	57.5	61.3	63.0	57.0	62	75
29-Dec-22	14:43	61.6	63.0	58.0	62.3	63.5	58.0	62.5	63.5	57.5	61.6	63.0	57.5	62.7	63.0	58.0	62.8	63.0	58.0	62	75

Noise Meas	sureme	ent Resi	ılts (dB)) of NM	S4a																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	nin)	Leq30m	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	in,	Level
	TIME	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
2-Dec-22	9:25	69.6	72.5	66	71.5	73	67	68.8	73	66	69.5	73	66	70.3	73	66	68.2	72.5	65.5	70	75
8-Dec-22	9:06	68.6	73.5	65.5	73.1	75	68	68.3	73	66	70.6	73	65.5	68.2	72	65	68.5	72	65	70	75
12-Dec-22	9:18	73.2	74	67	68.6	72.5	66	68.5	72.5	66	70.2	73	66	69.5	73	66	67.7	72	65	70	75
20-Dec-22	9:10	68.6	73	65	67.3	72	65	67.5	72	65	69.2	73	66	70.4	73	66	67.5	71	65	69	75
29-Dec-22	9:10	67.5	72.4	64.2	66.9	71.8	63.4	67.3	72.2	65.1	68.9	71.2	64.3	68.5	72.7	66.2	67.1	71.9	65.6	68	75

Noise Measu	urement	t Result	ts (dB)	of NMS	5																
	Stant	1st	Leq (5)	nin)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (5)	min)	Lag20min	Limit
Date	Start Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	Level
	1 mile	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)
2-Dec-22	10:40	67.6	71	65.5	70.2	72	66	71.5	73	66	68.6	72	65.5	70.5	72	66	72.5	73.5	66	70	75
8-Dec-22	10:28	70.2	73.5	66	69.4	72.5	66	68.6	72.5	65.5	71.2	75	68	70.3	73.5	66.5	72.2	76	69	70	75
14-Dec-22	10:30	68.6	71	66	72.2	73.5	67	68.2	71	65.5	70.6	72	66	71.4	73	66	70.7	72.5	65.5	71	75
20-Dec-22	10:28	70.6	73.5	66	71.2	73.5	66	70.2	73	65.5	69.2	71	65	68.5	71	65	71.3	73	66	70	75

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx



Noise Measu	uremen	t Result	ts (dB) o	of NMS	5																
	Start 1st Leq (5min) 2nd Leq (5min) 3rd Leq (5min) 4th Leq (5min) 5th Leq (5min) 6th Leq (5min) Leq30min,																				
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	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)
29-Dec-22	10:30	68.2	71.4	66.1	70.9	72.5	67.2	71.4	73.1	66.8	68.9	72.1	65.9	70.2	71.8	66.4	72.5	73.9	66.9	71	75

Noise Measu	uremei	nt Resu	lts (dB)) of NM	S6																
	Start	1st	Leq (5r	nin)	2nd	Leq (51	min)	3rd	Leq (51	nin)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (5r	nin)	Log20min	Limit
Date	Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90,	Leq30min, dB(A)	Level dB(A)												
2-Dec-22	16:30	65.9	69	63	66.2	70	65	66.5	70	65	67.2	72	65	66.5	70.5	65	67.5	71.5	65	67	75
8-Dec-22	15:30	65.7	67.8	63.3	67.2	69.1	64.2	65.7	69.4	64.4	65.8	68.2	63	64.8	66.7	62.8	65	67	63	66	75
14-Dec-22	15:42	65.6	69	63	67.5	72	65	65.9	70	63	66.5	68.5	63	65.8	68.5	63	67.2	70	63	66	75
20-Dec-22	15:30	67.5	71	64.5	66.8	70	64	66.5	71	64	67.2	71	63.5	67.3	71	64	68.2	72	66	67	75
29-Dec-22	15:27	65.5	69	62.5	66.2	70.5	63.5	65.7	70	63.5	65.6	69	63	67.2	71.5	65	65.4	70.5	63	66	75

Noise Measu	uremen	t Resul	ts (dB)	of NMS	57																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (5r	nin)	5th	Leq (51	nin)	6th	Leq (5r	nin)	Log20min	Limit
Date	Start Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)		L90, dB(A)	Leq30min, dB(A)	Level dB(A)												
2-Dec-22	17:08	69.3	72	65.5	68.6	71.5	65.5	67.7	71	65	68.1	70	63	65.6	68	63	65.5	68	63	68	75
8-Dec-22	16:08	70	73	63	68.9	72.5	63	68.6	71.5	64	67.2	70	62.5	71.4	74	66.5	68.4	71.5	63.5	69	75
14-Dec-22	16:20	67.5	70	63	65.2	70	62.5	68.3	72	65	65.5	70	63	66.5	70.5	63	68.5	72	63.5	67	75
20-Dec-22	16:28	69.5	71.5	65	68.3	70	65	71.2	72	66	65.8	69	62	66.7	70	62.5	65.5	70	62	68	75
29-Dec-22	16:10	66.9	71.5	63	67.2	72	65	67.5	72	65	65.5	68	63	66.2	70	63	65.3	70	62.5	67	75

Noise Measu	uremen	t Resul	lts (dB)	of NMS	8																
	Stant	1st Leq (5min)		2nd Leq (5min)		3rd Leq (5min)		4th Leq (5min)		5th Leq (5min)		6th Leq (5min)		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)
2-Dec-22	13:19	65.2	68	60	63.5	66.5	58	60.5	63	58	63.2	66.5	58.5	63.6	66.5	58.5	62.8	66	58	63	75
8-Dec-22	13:10	62.6	66	58	63.2	66	58	63.7	66.5	60	65.3	68	60	62.6	65.5	59	62.7	66	66	63	75
14-Dec-22	13:16	65.6	70	65	66.5	70	63	65.7	69	63	65.8	70	63	66.8	70.5	65	68.3	71	66	67	75
20-Dec-22	13:05	63.8	66	61	64.5	67.5	60	63.3	67	60	63.5	66	59	63.7	66	59	65.2	67.5	62	64	75
29-Dec-22	13:05	57.3	61.2	48.3	56.2	59.1	50.3	54.9	59.6	44.9	56.2	58.6	51.6	54.5	58.1	46.9	54.4	57.3	45.4	56	75



NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Measurement Results (dB) of CN3

	Start	1st	1st Leq (5min)			2nd Leq (5min)			3rd Leq (5min)		4th Leq (5min)			5th	Leq (51	min)	6th	Leq (51	min)	T	Limit
Date Time	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	-)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq, dB(A)	L10, dB(A)	L90,	Leq30min, dB(A)	Level dB(A)	
2-Dec-22	9:58	63.4	66	60	65.2	67	61	62.8	66	60	65.7	67	61.5	63.6	66	60.5	63.5	66	60	64	75
8-Dec-22	9:40	65.5	67.5	63	63.6	67	62	63.8	67	62.5	63.5	68	60.5	65.8	69	62	67.2	70	63.5	65	75
14-Dec-22	9:51	66.5	68	62	65.8	68	62	66.5	68.5	62.5	65.5	68	61.5	65.2	67.5	61.5	66	67.5	62	66	75
20-Dec-22	9:46	63.2	67.5	61	65.5	68	61.5	64.2	67.5	60.5	65.5	68.5	61	63.6	67.5	61	63.8	67.5	60.5	64	75
29-Dec-22	9:48	62.1	65.3	56.4	62.5	65.5	55.6	60.8	63.6	55.4	60.3	63.1	54	61.3	64.7	55.4	62	64.5	55.9	62	75

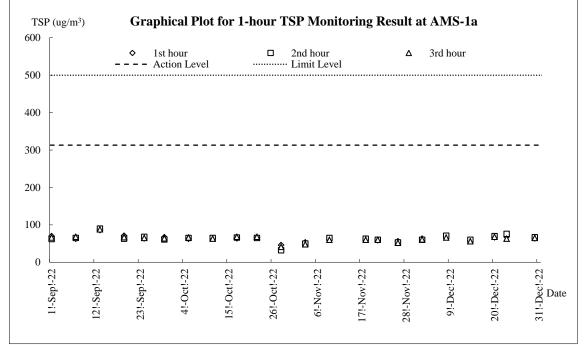


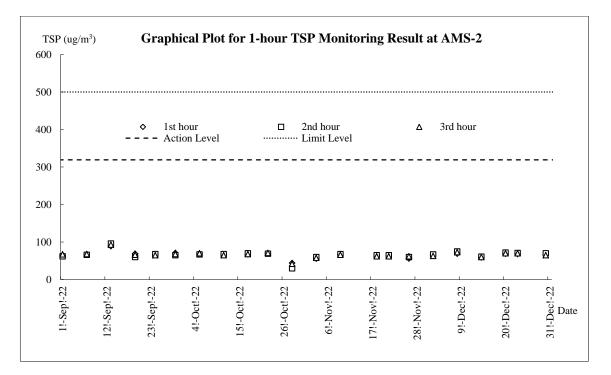
Appendix I

Graphical Plots for Monitoring Result



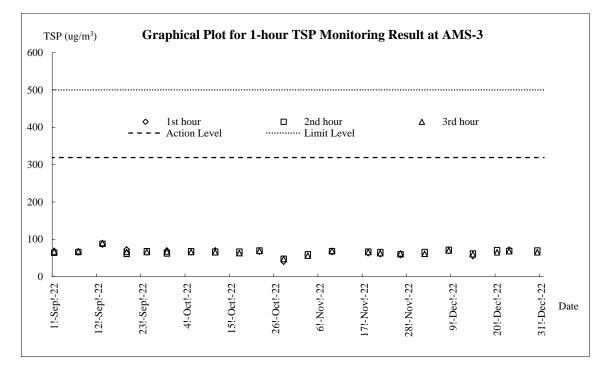
Air Quality – 1-hour TSP

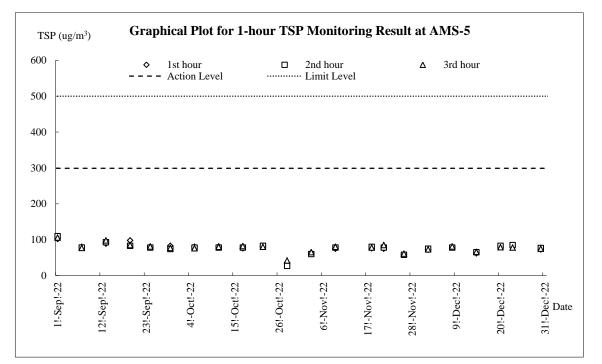






Monthly Environmental Monitoring & Audit Report (December 2022)

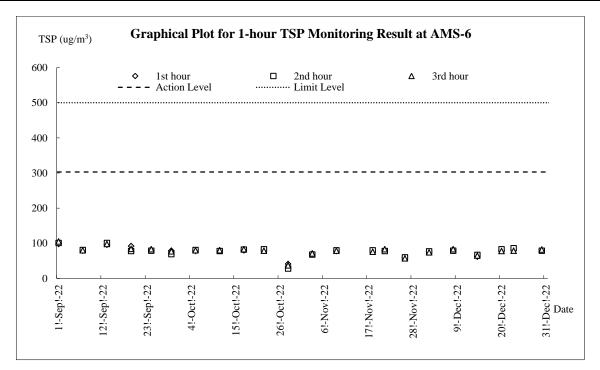


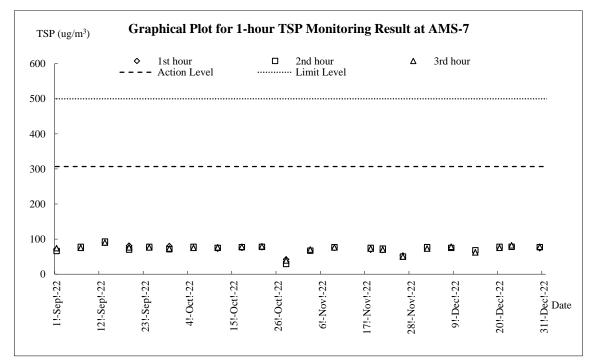


CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site - Site Formation and Associated Infrastructure Works



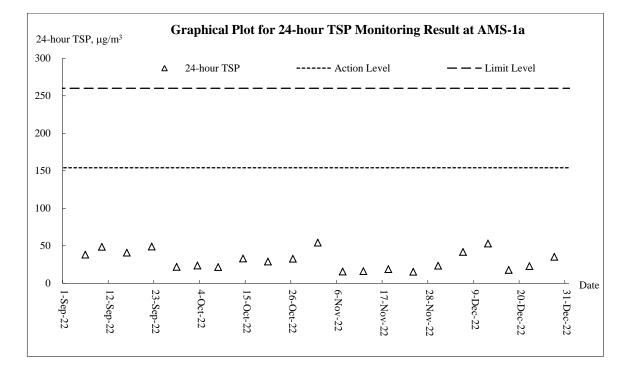
Monthly Environmental Monitoring & Audit Report (December 2022)

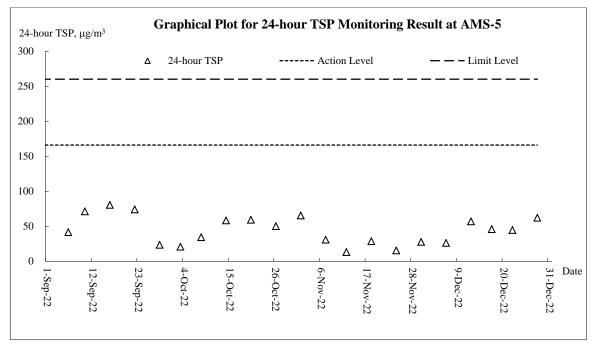






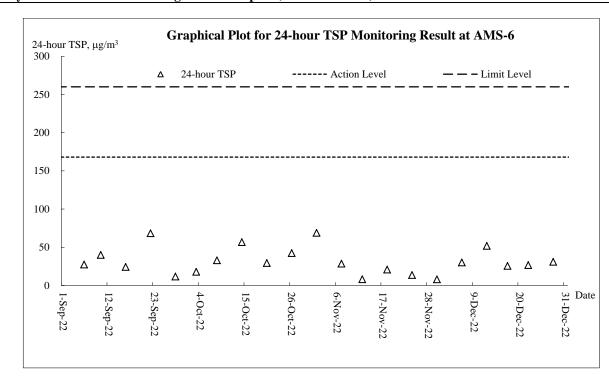
Air Quality – 24-hour TSP

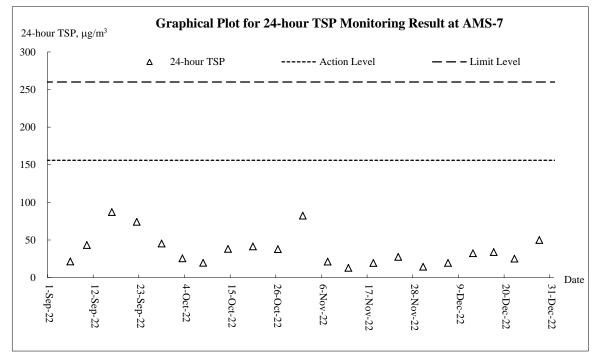




CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (December 2022)

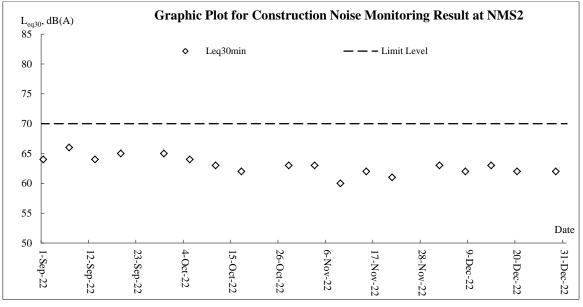


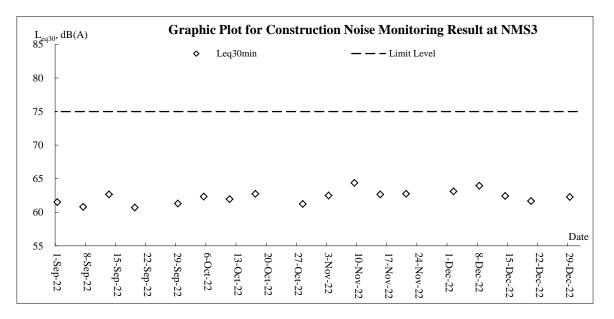


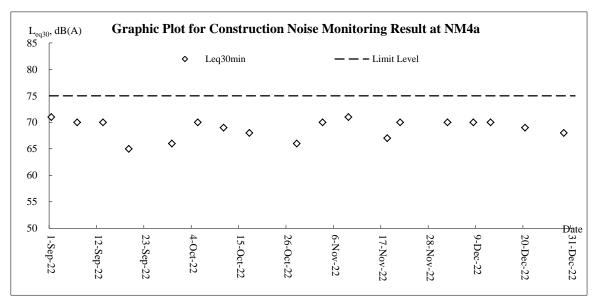


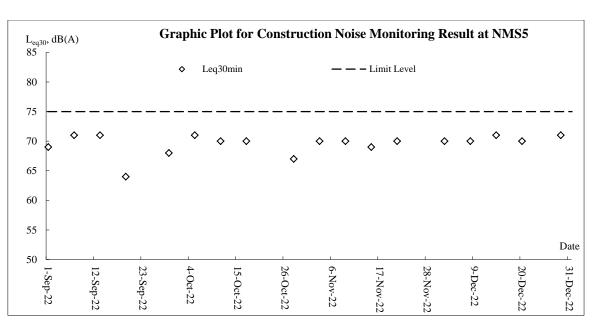


Noise

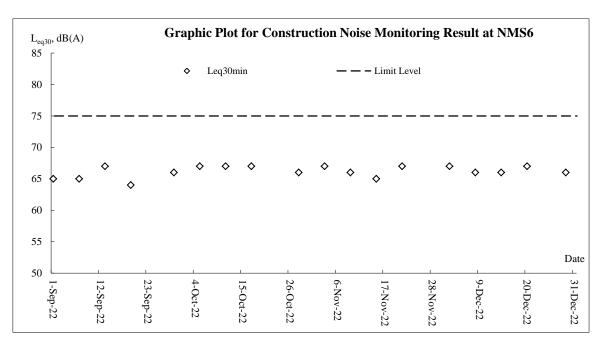




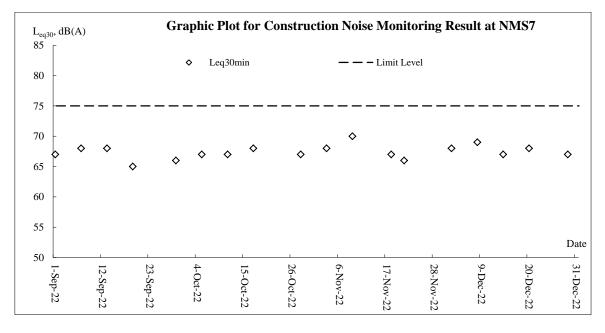


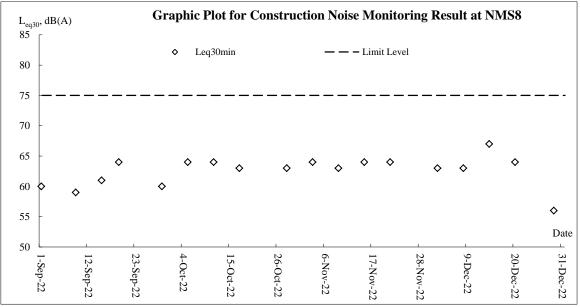


AUES

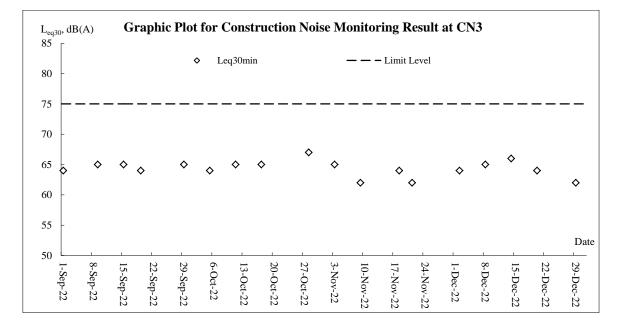














Appendix J

Meteorological Data

 $Z: \label{eq:loss} 2016 \label{eq:loss} CEDD \lab$

CEDD Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (December 2022)



			Total	Kwun Tong Station	Kai Tal	k Station	King's Park Station
Date		Weather	Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Wind Direction	Mean Relative Humidity (%)
1-Dec-22	Thu	Cool. Cloudy to overcast with one or two rain patches.	Trace	16.2	10	NW	72
2-Dec-22	Fri	It will be cool. Sunny periods in the afternoon.	0	16.3	9.2	NW	65.5
3-Dec-22	Sat	Mainly cloudy tonight.	0	19.4	9	NW	61
4-Dec-22	Sun	Moderate to fresh north to northeasterly winds.	0	22.8	9.2	N/NW	64
5-Dec-22	Mon	Dry with sunny intervals in the afternoon.	0	16.9	12.2	N/NW	65.7
6-Dec-22	Tue	Mainly cloudy and cool.	0	17.5	10	NW	65
7-Dec-22	Wed	Dry with sunny periods in the afternoon.	Trace	18.2	7.5	E/NE	63.7
8-Dec-22	Thu	Fine. Dry in the afternoon.	0	18.6	8.7	SE	67
9-Dec-22	Fri	Moderate north to northeasterly winds.	0	18.6	8.7	N/NW	62.5
10-Dec-22	Sat	Mainly cloudy and dry.	0	18.7	10.1	N/NW	59.7
11-Dec-22	Sun	Moderate to fresh northerly winds	0	17	12	N/NW	56.2
12-Dec-22	Mon	Cloudy with one or two light rain patches.	Trace	15.8	12	N/NE	57.5
13-Dec-22	Tue	Moderate to fresh northerly winds	3.2	14.8	10.7	NW	70.5
14-Dec-22	Wed	Cold and cloudy to overcast with a few rain patches.	8.7	11.7	7.5	NW	89.5
15-Dec-22	Thu	Cloudy to overcast with a few rain patches.	3.8	13.8	6	NE	88.7
16-Dec-22	Fri	Cloudy to overcast.	0.9	16.1	7	N/NW	89.2
17-Dec-22	Sat	Cool with one or two rain patches.	9.1	12.7	10.2	N/NW	51
18-Dec-22	Sun	Moderate northerly winds.	Trace	11	10.2	N/NW	25
19-Dec-22	Mon	Fine and dry. Cold in the morning.	0	13.2	10	E/SE	37.7
20-Dec-22	Tue	Dry with sunny periods.	0	16.8	12	SE	66
21-Dec-22	Wed	Fine. Very dry in the afternoon.	Trace	18.1	12	NW	45.5
22-Dec-22	Thu	Fine and very dry. Rather cool tonight.	0	16.3	6.2	W/NW	25
23-Dec-22	Fri	Fine and very dry. Moderate northeasterly winds	0	17	9	SE	29.5
24-Dec-22	Sat	Moderate north to northeasterly winds, occasionally fresh.	0	17	10.5	SE	31
25-Dec-22	Sun	Moderate northeasterly winds, fresh later.	0	15.3	11.2	E/NE	39
26-Dec-22	Mon	Fine and very dry. Moderate northeasterly winds	0	15.9	14	E/NE	51.5
27-Dec-22	Tue	Moderate northeasterly winds, fresh later.	0	15.9	16.0	E/NE	64.5
28-Dec-22	Wed	Fine and dry. Cool in the morning and at night.	0	17.3	7.5	E/NE	64
29-Dec-22	Thu	Fine and dry.	Trace	16.5	9.2	N/NW	57.5
30-Dec-22	Fri	Rather cool in the morning.	0	15.2	9	NW	60.7
31-Dec-22	Sat	Moderate northerly winds, fresh offshore at first.	0	15	10.5	N/NW	62



Appendix K

Waste Flow Table

		Actual Quan	tities of Inert C&I	O Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes C	Generated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 8)	Disposed as Public Fill	Imported Fill	Metals (see Note 9)	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	2.871	0.000	2.517	0.000	0.354	0.000	0.000	0.000	0.015	0.000	0.082
Feb	1.372	0.000	1.187	0.000	0.185	0.000	0.000	0.000	0.000	0.000	0.102
Mar	2.226	0.000	1.128	0.000	1.099	0.000	0.000	0.000	0.000	0.000	0.075
Apr	8.798	0.000	3.728	4.288	0.782	0.000	0.000	0.791	0.000	0.000	0.160
May	3.665	0.000	0.000	3.081	0.584	0.000	0.000	0.813	0.000	0.000	0.123
Jun	12.282	13.582	0.000	11.784	0.498	0.000	0.004	0.000	0.007	0.000	0.081
Sub-total	31.214	13.582	8.560	19.153	3.501	0.000	0.004	1.604	0.022	0.000	0.623
Jul	9.504	0.000	0.000	9.473	0.031	0.000	0.004	0.000	0.007	0.000	0.107
Aug	11.236	0.107	0.000	10.294	0.941	0.000	0.003	0.000	0.009	0.000	0.133
Sep	15.716	0.000	0.000	14.996	0.720	0.000	0.003	0.000	0.009	0.000	0.192
Oct	24.468	0.000	0.000	23.920	0.548	0.000	0.000	0.000	0.000	0.000	0.069
Nov	37.519	0.000	0.000	37.519	0.000	0.000	0.003	0.000	0.006	0.000	0.058
Dec	22.985	0.000	0.000	22.653	0.332	0.000	0.000	0.000	0.000	0.000	0.062
Total	152.641	13.689	8.560	138.008	6.073	0.000	0.017	1.604	0.052	0.000	1.246

Monthly Summary Waste Flow Table for 2022 (year)

Notes:

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

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

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

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

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

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

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

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

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

Remarks: refer to Rock and AHM Record (Z:\04 SUPPORT WORK FOLDERS\F. ENVIRONMENTAL\4 - Implementation and Operation\4.4 - Documentation and its Control\11 - WFT, ULSD & Timber\Waste Flow Table\2017-07)

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

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

Monthly Summary Waste Flow Table for 2022 (year)

		Actual Quanti	ties of Inert C&	D Materials G	enerated Mont	hly	Act	ual Quantities o	f C&D Wastes	Generated Mo	onthly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m ³)
Jan	0.02	0	0	0	0.02	0	0	0	0	0	0.05
Feb	0.01	0	0	0	0.01	0	0	0	0	0	0.05
Mar	0.02	0	0	0	0.02	0	0	0	0	0	0.01
Apr	0.02	0	0	0	0.02	0	0	0	0	0	0.01
May	0.04	0	0	0	0.04	0	0	0	0	0	0.03
June	0.13	0	0	0	0.13	0	0	00	0	0	0.02
Sub-total	0.24	0	0	0	0.24	0	0	0	0	0	0.17
July	0.15	0	0	0	0.15	0	0	0	0	0	0.02
Aug	0.04	0	0	0	0.04	0	0	0	0	0	0.02
Sept	0.06	0	0	0	0.06	0	0	0	0	0	0.06
Oct	0	0	0	0	0	0	0	0	0	0	0.04
Nov	0.02	0	0	0	0.02	0	0	0	0	0	0.06
Dec	0.02	0	0	0	0.02	0	0	0	0	0	0.09
Total	0.53	0	0	0	0.53	0	0	0	0	0	0.46

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 $50,000 \text{ m}^3$.

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

		Actual Quan	tities of Inert C&l	O Materials Genera	ted Monthly		Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 6)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)		
Jan	1.587	0.000	0.441	0.000	1.146	0.000	0.003	0.000	0.003	0.000	0.052		
Feb	1.039	0.000	0.200	0.000	0.839	0.000	0.000	0.000	1.694	0.000	0.016		
Mar	1.261	0.000	0.090	0.000	1.171	0.000	0.000	0.000	0.434	0.000	0.041		
Apr	1.200	0.000	0.460	0.000	0.740	0.000	0.002	0.099	0.523	0.000	0.015		
May	1.087	0.000	0.094	0.000	0.993	0.000	0.000	0.000	1.456	0.070	0.033		
Jun	0.976	0.000	0.014	0.265	0.697	0.000	0.000	0.000	0.602	0.000	0.026		
Sub-total	7.149	0.000	1.299	0.265	5.586	0.000	0.005	0.099	4.712	0.070	0.183		
Jul	1.594	0.000	0.067	0.495	1.032	0.000	0.000	0.000	1.778	0.000	0.027		
Aug	1.913	0.000	0.187	0.954	0.772	0.000	0.002	0.092	1.601	0.000	0.025		
Sep	2.045	0.000	0.570	0.221	1.254	0.420	0.000	0.000	0.000	0.000	0.041		
Oct	1.374	0.000	0.015	0.472	0.886	0.000	0.000	0.000	1.204	0.000	0.047		
Nov	0.967	0.000	0.060	0.221	0.686	0.368	0.000	0.000	0.000	0.000	0.048		
Dec	1.333	0.000	0.540	0.000	0.793	0.000	0.000	0.000	0.224	0.000	0.043		
Total	16.375	0.000	2.738	2.629	11.008	0.788	0.007	0.191	9.519	0.070	0.413		

Monthly Summary Waste Flow Table for <u>2022</u> (year)

Notes:

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

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

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

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

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

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

Contract No.: ED/2020/02

	Actual (Quantities of	Inert C&D	Materials G	enerated M	onthly	Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity of Materials Generated	Hard Rock, Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse		
	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	$(in '000 m^3)^*$		
Jan	0.608	0.000	0.606	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.019		
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015		
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031		
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014		
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002		
June	0.795	0.000	0.000	0.795	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
July	2.823	0.000	0.000	2.481	0.342	0.000	0.000	0.000	0.000	0.000	0.000		
Aug	0.088	0.000	0.000	0.000	0.088	0.000	0.000	0.000	0.000	0.000	10.340		
Sep	0.144	0.000	0.000	0.062	0.082	0.000	0.000	0.000	0.000	0.000	0.000		
Oct	2.050	0.000	0.000	1.772	0.278	0.000	0.000	0.000	0.000	0.000	0.000		
Nov	0.676	0.000	0.000	0.000	0.676	0.000	0.000	0.000	0.000	0.000	0.000		
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.950		
Total	7.184	0.000	0.606	5.110	1.468	0.000	0.000	0.000	0.000	0.000	15.371		
Jan-23					0.500#								

Monthly Summary Waste Flow Table for 2022

Notes: * Conversion factor for general refuse, 1 tonne = 2m³ # Estimation for next month

Wing Lee – Univic Joint Venture
ED/2019/02 - Environmental Management Plan
Appendices - Appendix 13Rev. No.21Issue Date31-Dec-2022

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

Contract No. : _____ ED/2019/02

Monthly Summary Waste Flow Table for 2022 (year)

;											
				&D Materials G	enerated Mon	thly	Annu	al Quantities of	C&D Material	s Generated M	Ionthly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemicals Waste	Others, e.g. general refuse
	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m ³)
Jan	0.18	0.18	0	0	0.18	0	0	0	0	0	0.02
Feb	0.02	0.02	0	0	0.02	0	0	0	0	0	0
Mar	0.31	0.31	0	0	0.31	0	0	0	0	0	0.01
Apr	0.162	0.162	0	0	0.162	0	0	0	0	0	0.009
May	0.279	0.279	0	0	0.279	0	0	0	0	0	0.008
June	0.039	0.039	0	0	0.039	0	0	0	0	0	0.006
Sub-total	0.990	0.990	0	0	0.990	0	0	0	0	0	0.053
July	0.028	0.028	0	0	0.028	0	0	0	0	0	0.003
Aug	0.152	0.152	0	0	0.152	0	0	0	0	0	0.016
Sept	0.665	0.665	0	0	0.665	0	0	0	0	0	0
Oct	0.381	0.374	0.007	0	0.374	0	0	0	0	0	0.044
Nov	0.293	0.293	0	0	0.293	0	0	0	0	0	0.025
Dec	0.293	0.279	0.014	0	0.279	0	0	0	0	0	0.015
Total	2.802	2.781	0.021	0	2.781	0	0	0	0	0	0.156

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

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



Appendix L

Implementation Schedule for Environmental Mitigation Measures



		Objectives of the	Who to			Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	Dust Impact (Contraction 1		•	•	•		•		
S4.7.2 to S4.7.5	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.75 L/m^2 to achieve the respective dust removal efficiencies.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V	V
S4.7.6	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction ion Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	V	V	V	V	V
S4.7.6	 Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wet ted with water and cleared from the surface of roads; A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction ion site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement 	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	@	@	@	@	@



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

EM&A	Recommended Mitigation Measures	Recommended	Who to implement the	Location of the measure	Implementation Status					
Ref.	Recommended witigation wieasures	Measures & Main Concern to Address	measures?		Contract	Contract 2	Contract 3	Contract 4	Contract 5	
	shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.									
S4.7.7	Implement regular dust monitoring under EM&A programme during the Construction phase.	Control construction airborne noise	Selected Representative dust monitoring station	All construction sites where practicable	V	N/A	V	N/A	N/A	
	Noise Impact (Contraction	Phase)	•							
S5.6.9	 Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works; mobile plant should be sited as far away from NSRs as possible and practicable; and material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 	Control construction ion airborne noise	Contractor	All construction sites where practicable	@	V	V	e	e	
\$5.6.11 to \$5.6.13	Use of "Quiet" Plant and Working Methods.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	V	N/A	N/A	N/A	N/A	
\$5.6.14	Install temporary site hoarding (approx 2.5m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction ion noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	V	V	V	V	V	
S5.6.15 to S5.6.18	Install movable noise barriers, full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction ion sites where practicable	V	V	N/A	V	N/A	
S5.6.19	Sequencing operation of construction plants equipment.	Operate sequentially	Contractor	All construction	V	V	N/A	N/A	N/A	

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx



		Objectives of the	Who to			Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5
		within the same work site to reduce the construction airborne noise		ion sites where practicable					
\$5.6.34	Implement temporary noise barrier along Road L4.	Further reduce the construction ion airborne noise	Contractor	Road L4 of ARQ	N/A	N/A	N/A	N/A	N/A
\$5.6.35	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected Representative Noise monitoring stations	V	N/A	V	N/A	N/A
В	Water Quality Impact (Cor				-				
\$6.6.3	 <u>Construction Runoff</u> In accordance with the Practice Note for Professional Persons on Construction ion Site Drainage, Environmental Protect ion Department , 1994 (ProPECC PN 1/94), best management practices should be implemented as far as practicable as below: At the start of site establishment , perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for set t ling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped. 	Control construction runoff	Contractor	All construction sites	(C)	e	@	e	V



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



			Objectives of the	11 71 - 4 -		Implementation Status				
EM&A Ref.		Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5
	•	prevent the washing away of construction ion materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction								
		ion materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.								
	•	Precautions to be taken at any time of year when rainstorms are likely, act ions to be taken when a rainstorm is imminent or forecasted, and act ions to be taken during or after rainstorms are summarized in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention should be paid to the control of silty surface runoff during storm events.								
	•	All vehicles and plant should be cleaned before leaving a construction ion site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction ion site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The sect ion of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient back all toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to								
	•	public roads and rains. Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy								
	•	rain. Construction ion solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.								



		Objectives of the	Who to	T (* 64		Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	Who to implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	 All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bun ds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Not ices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the rivers. 								
S6.6.6 and 6.6.7	 Sewage from Workforce Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be needed. In addition, the total number of the chemical toilets would be subject to later detailed design, the capacity of the chemical toilets, and contractor's site practices. Nevertheless, a licensed contractor should be employed to provide appropriate and adequate portable toilets to cater around 37.5 m3/day sewage and be responsible for appropriate disposal and maintenance. Since portable chemical toilets will be provided, no adverse water quality impact from the workforce sewage is anticipated. 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 	Handling of site sewage	Contractor	All construction sites	V	V	V	V	V



		Objectives of the	Who to	Location of the		Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	water quality impact after undertaking all required measure								
S6.6.8 and 6.6.9	<u>Accidental Spillage</u> 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	@	V	V	V	V
S6.6.11- S6.6.14	Groundwater from Contaminated Area The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater discharge. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliancy to the TM-DSS and the existence of prohibited substance should be confirmed after further SI. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with TMDSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. Petroleum Carbon Ranges (PCRs)). All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be	Minimize contaminated groundwater impacts	Contractor	All construction sites	N/A	N/A	N/A	N/A	N/A



EM&A		implement the	Location of the	Implementation Status						
Ref.	Recommended Mitigation Measures	Measures & Concern to Ac	Main	implement the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	discharged into the foul sewers.									
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Sect ion 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the select ion of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged to EPD for agreement. Pollution levels of groundwater to be recharge, any prohibited substances such as PCRs should be removed as necessary by installing the									
	petrol interceptor. Waste Management (Contr	action Phase)					<u> </u>			
\$8.5.2	 <u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 	Minimize generation construction	waste during	Contractor	All construction sites	V	@	V	@	V
1	dramage systems, sumps and on interceptors;	l				1	1	1	1	L

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx

EM&A	Becommended Mitigation Managerer	Objectives of the Recommended	Who to implement the measures?	Location of the measure	Implementation Status					
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address			Contract 1	Contract 2	Contract 3	Contract 4	Contract 5	
	(WMP) as part of the Environmental Management Plan (EMP) in accordance with the <i>ETWB TC(W) No. 19/2005</i> for construction ion phase. The EMP should be submit ted to the Engineer for approval. Mitigation measures proposed in the EIA Report and the EM&A Manual should be adopted.	generation during construction		sites						
\$8.5.3	 <u>Waste Reduction Measures</u> Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling o materials and their proper disposal; proper storage and site practices to minimize the potential for damage and contamination of construction ion materials; plan and stock construction ion materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable port ions (i.e. soil, broken concrete, metal etc.); provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. 	Reduce waste generation	Contractor	All construction sites where practicable	V	V	V	V	V	
S8.5.5	 <u>Storage of Waste</u> The following recommendation should be implemented to minimize the impacts: waste such as soil should be handled and stored well to ensure secure containment; stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; different locations should be designated to stockpile each material to enhance reuse; 	Minimize waste impacts from storage	Contractor Contractor	All construction sites	V	V	V	V	V	
S8.5.6	Collection and Transportation of Waste The following recommendation should be implemented to minimize the impacts:	Minimize waste impacts from storage	Contractor	All construction sites	V	@	V	@	@	



EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the measures?	Location of the	Implementation Status						
Ref.		Measures & Main Concern to Address		measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5		
	 remove waste in timely manner; employ the trucks with cover or enclosed containers for waste transportation; obtain relevant waste disposal permits from the appropriate authorities; and disposal of waste should be done at licensed waste disposal facilities. 										
\$8.5.8	Excavated and C&D Material Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public filling areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: • maintain temporary stockpiles and reuse excavated fill material for backfilling; • carry out on-site sorting; • make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • implement a recording system for the amount of waste generated, recycled and disposed of for checking; The recommended C&D materials • Reuse of C&D materials • Use of Standard Formwork and Planning of Construction Materials purchasing • Provision of wheel wash facilities	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	V	V	V	V	V		
S8.5.15	Contaminated Soil As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	Remediate contaminated soil	Contractor	All construction sites where applicable	V	V	N/A	N/A	N/A		
S8.5.17	Chemical Waste	Control the chemical	Contractor	All construction	V	V	V	V	V		

EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Who to implement the	Location of the		Imple	ementation S	Status	
Ref.	Recommended witigation weasures	Measures & Main Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5
	• If chemical wastes are produced at the construction ion site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Cent re, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	waste and ensure proper storage, handling and disposal.		sites					
\$8.5.18	 <u>General Waste</u> General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collect ion and routine cleaning for these areas should also be implemented to keep areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis. 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	@	V	V	V	@
S8.5.19	 Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts. 	Minimize production of sewage impacts	Contractor	All construction sites	V	V	V	V	V
	Ecology (Contraction Phase				r	r		I	
S. 10.7.2 to 10.7.6	Re-provision of Wooded Area for ecological function at the future Quarry Park.	Compensate for the loss of three woodland patches of a total area of about 1.13ha.	Contractor/ Detailed Design Consultant (qualified botanist / horticulturist / Certified Arborist to supervise the planting).	Northern part of the proposed Quarry Park.	N/A	N/A	N/A	N/A	N/A

		Objectives of the	Who to	Location of the		Imple	ementation S	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract 2	Contract 3	Contract 4	Contract 5
.10.7.10	 Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include: Temporary severage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses; Proper locations well away from nearby watercourses will be used for temporary storage of materials (i.e. equipment, fill materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works; To prevent muddy water entering nearby watercourses, work sites close to nearby watercourses will be isolated, using such items as sandbags or silt curtains with lead edge at bot tom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the works site; Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses; Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses; Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses; Exposed soil will be covered as quickly as possible following format ion works, followed, where appropriate, by covering with biodegradable geotextile blanket for erosion control purposes; Where appropriate, earth-bunding will be carried out of areas where soils have been disturbed or where vegetation has been cleared, to ensure that surface runoff will not move soils off-site; Construction ion effluent, site run-off and sewage will be probably collected and/or treated. Wastewater from any construction ion site will be 	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	V	N/A	V	V	N/A

EM&A		implement the		Location of the		Implementation Status					
Ref.	Recommended Mitigation Measures			measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 5		
	 minimised via the following in descending order: reuse, recycling and treatment; Proper locations for discharge out lets of wastewater treatment facilities well away from sensitive receivers will be identified and used; Silt traps will be installed at points where drainage from the site enters local watercourses; Appropriate sanitary facilities for on-site workers will be provided; The site boundary will be clearly marked and any works beyond the boundary strictly prohibited, and Regular water monitoring and site audit will be carried out at suitable points. If the monitoring and audit results show that pollution occurs, adequate measures including temporary cessation of works will be considered. 										
S.10.7.11	 Implement an emergency contingency plan during the construction phase and the plan will include, but not be limited to, the following: Potential emergency situations; Chemicals or hazardous materials used on-site (and their location); Emergency response team; Emergency response procedures; List of emergency telephone hot lines; Locations and types of emergency response equipment, and Training plan and testing for effectiveness. 	Minimize impacts on Hydrological condition and water quality of hillside watercourses.	Contractor	All construction sites	N/A	N/A	N/A	N/A	N/A		
	Landscape and visual (Con			T			1	1			
S11.14.23, Table 11.9, CM1 [4]	All existing trees to be retained shall be carefully protected during construction.	Avoid disturbance and protection of the existing trees	Detailed Design Consultant /	The whole project area where applicable	V	V	@	V	@		
S11.14.23, Table 11.9, CM2 [3]	Tree Transplantation - Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled. Detailed transplanting proposal will be submit ted to relevant government departments for approval in accordance with LAO GN No. 7/2007, ETWB TCW No. 29/2004 and 10/2013. Final locations of transplanted trees shall be agreed prior to commencement of the work.	Minimize landscape impact and retention of landscape resources	Detailed Design Consultant /	Onsite where possible. Otherwise consider offsite locations	*	N/A	N/A	V	V		

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

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



Appendix M

Complaint Log



Appendix M1 Cumulative Complaint and Summons/ prosecution

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



April 2021	1	0
May 2021	0	0
June 2021	1	0
July 2021	1	0
August 2021	0	0
September 2021	2	0
October 2021	0	0
November 2021	0	0
December 2021	0	0
January 2022	0	0
February 2022	0	0
March 2022	1	0
April 2022	1	0
May 2022	3	0
June 2022	2	0
July 2022	0	0
August 2022	2	0
September 2022	1	0
October 2022	1	0
November 2022	0	0
December 2022	0	0
Overall Total	81	0



Appendix M2

Complaint Log

Log ref.	Date of Complai nt		Complaint Location	-	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
1	23-Mar- 17	8-Jun-17	On Tat Estate	Reside nt of On Tat Estate	Constructio n noise	SPRO hotline		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/ 16/300/F00 87
2	28-Jul-1 7	28-Jul-1 7	38/F of Yin Tat House (賢達樓), On Tat Estate	Reside nt of On Tat Estate	Constructio n 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 (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 10 am on 1-Aug-2017 and was witnessed by Mr. Hsu. No exceedance of noise was recorded. The complainant was satisfied about the monitoring results.		TCS00864/ 16/300/F00 60
3	29-Aug- 17	29-Aug- 17	Shing Tat House 24/F	Reside nt of On Tat Estate	Constructio n noise	SPRO hotline	NA	Mr. Hsu Yau Wai (Tel no.9519 5663) reported that he received complaint from a resident (Ms Cheng) living at Shing Tat House 24/F Room 22 about the noise generated from our site this week. The noise heard was mainly rock breaking noise from our	Noise monitoring was carried out by ET		TCS00864/ 16/300/F00 81



L0g ref	Date of Complai nt		Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								site.			
4	21-Jun-1 7	29-Aug- 17	Tat Yan House, Po		Constructio n noise	EPD		day time construciton noise of breakers (8am to	Since these two complaints were forwarded by CEDD to ET on 31 August 2017 which way after the complaint dates. Investigation would be conducted based on the site information by the Contractor of Contract 1 - NE/2016/01		TCS00864/ 16/300/F00 93
5	22-Jun-1 7	29-Aug- 17	Tat Yan House, Po	nt of Po Tat	Dust & Constructio n noise	EPD	ePD (ref. N08/RE/ 0001942	Day time construction noise of breakers (8AM to 6PM). Requested to delay the operating hour of breakers to 10AM or 11AM	(CWSTVJV) as well as the observation during weekly site inspection carried out ET during June 2017. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.	no comment by IEC on 3 Nov 2017	TCS00864/ 16/300/F00 93
6	15-Jul-1 7	29-Aug- 17	Tat Y1 House, Po		Constructio n noise	EPD	EPD (ref.N08/ RE/0002 2479-17)	Construction noise	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To		TCS00864/ 16/300/F00 94



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og rof	Date of Complaint
									eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately.		
7	28-Jul-1 7	υ	Anderson Road	unkno wn	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.		
8	2-Aug-1 7	29-Aug- 17	Chun Tat House, On Tat Estate	Reside nt of On Tat Estate	Constructio n noise	EPD	(ref.N08/ RE/0002	Day time construction noise of breakers (8AM to 6PM)	CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in August 2017, there were no breaches of EM&A requirement. However, to eliminate the	by IEC on 15 Nov	TCS00864/ 16/300/F00 98



Log ref.	Date of Complai nt		-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
9	19-Sep-1 7	19-Sep-1 7	Sau Mau Ping Estate Sau Nga House		Constructio n noise	SPRO hotline	NA	38/F. He complained about the noise nuisance recently from August to September especially during night time after 12:00 am, even in Saturdays and Sundays. The noise nuisance caused a great disturbance to him. He made a request to conduct	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅 樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.	no comment by IEC on 18 Oct 2017	
10	21-Sep-1 7		Sau Mau Ping Estate Sau Nga House and Sau Yee House		Constructio n noise	EPD	RE/0003	Nga House even in daytime and he strongly requested the Contractor to follow up the case immediately.	ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅 樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme.		TCS00864/ 16/300/F00 88



Log ref.	Date of Complai nt		Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
11	27-Sep-1 7	13_0ct_1	House, On		Constructio n noise	EPD	EPD (ref.N08/ RE/0002 9489-17)	requested to shift the	mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in September		TCS00864/ 16/300/F01 06
12	3-Oct-17		Chun Tat House, On Tat Estate	Reside nt of On Tat Estate	Constructio n noise	EPD	EPD (ref. N08/RE/ 0003240 7-17)	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	and October 2017, 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 30 Nov 2017	TCS00864/ 16/300/F01 06
13	25-Oct-1 7	26_()ct_1	Tat Kwai House, Po	Reside nt of Po Tat Estate	Dust	EPD	NA	投訴安達臣道地盤的泥 車落泥,令他達貴樓的住 所受到大塵影響,要求跟 進及回覆	Investigation revealed that CWSTVJV has implemented dust mitigation measures to eliminate the 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.		TCS00864/ 16/300/F01 00

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
14	6-Nov-1 7	7-Nov-1	Chun lat	Reside nt of On Tat Estate	Noise	EPD	NA	07:45 開始傳出機器不停 揼石的噪音(幾乎每日在	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.	comment	TCS00864/ 16/300/F01 09
15	13-Nov- 17	14 - Nov	Chi Tai House, On Tai Estate	Mr. Lam Wai	light pollution and noise	SPRO hotline	NA	盤万向,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。 2. 隔音布未固定,大風 吹過發出極大的聲浪	To ease the concern by the complaint, CWSTVJV has adjusted the lights to the	no comment by IEC on 24 Nov 2017	

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
16	1-Nov-1 7	Shing Tat House, On Tat Estate	Reside nt 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。	As advised by the Contractor, the works that most likely induced the iron hammering noise to Shing Tat House shall be the rock breaking works to the hard rock of the Southeastern side of the Underground Stormwater Retention Tank. CWSTVJV had already deployed the acoustic mat as noise barrier at the site boundary near Shing Tat House. To enhance the noise mitigation measures, CWSTVJV deployed an acoustic mat as noise barrier for the breaking work in order to reduce construction noise affecting the upper floor of On Tat Estate Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on 13 Dec	TCS00864/ 16/300/F01 10
17	25-Aug- 17			Constructio n Noise	EPD	(ref.NU8/	Night time construction noise of hammering (around 12AM)	Ichould not denerate clanificant noice		TCS00864/ 16/300/F01 14

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
18	12-Sep-1 7	26-0 Ct-1	Chun Tat House, On Tat Estate	nt of	Constructio n Noise	EPD	EPD (ref. N08/RE/ 0002948 9-17)	Day time construction noise of breakers (8AM to 5PM)	Noise mitigation measures were implemented to reduce the noise impact to the nearby resident. According to the impact noise monitoring result in September 2017, there were no breaches of EM&A requirement. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	by IEC on	TCS00864/ 16/300/F01 17
19	15-Dec-1 7	21-Dec-1 7	Sau Yee House	Reside nt of Sau Mau Ping Estate	Constructio n Noise	EPD	NA	Resident of Sau Yee House complained suspected construction noise from Anderson Construction Site at restricted hour (7pm to	It is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out	by IEC on 10 Jan	TCS00864/ 16/300/F01 18
20	20-Dec-1 7	21-Dec-1 7	On Tat Estate	Reside nt of On Tat Estate	Dust	EPD	NA	vehicles generated dust problem and arouse air pollution to On Tat Estate. 投訴安達臣道 信和地盤水車已經壞了 十多天,一直無灑水, 四周非常大塵。投訴人 住於安達邨,投訴安達臣 道石礦場有大地盤,地盤	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. It is considered that the complaint was an isolated case due to malfunction of water tanker and CWSTVJV has promptly rectified the deficiency. As advised by CWSTVJV, another water tanker will be deployed in mid-January 2018 to enhance the dust suppression measures throughout the construction site.	no comment by IEC on 25 Jan 2018	TCS00864/1 6/300/F0121

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								到場視察。			
21	28-Dec-1 7	10-Jan-1 8	Sau Yee House	Reside nt of Sau Mau Ping Estate	Constructio n Noise	CE's office	NA	程拓展署管轄的石礦場 不時於非允許時段(即晚 上七時後至翌日早上)發 出疑似打地基的轟轟聲 巨響,最近一次就是今早 (28/12)凌晨五時多再次 聽到石礦場傳來聲響,將 Thomas 先生吵醒,懷疑 有人刻意在無人監管下 施工,更表示曾向環保署 及土木工程署作出投	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 result was below the Limit Level under the EM&A Programme. Moroever, 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.	no comment by IEC on 8 Feb 2018	TCS00864/1 6/300/F0129



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
22	15-Jan-1 8	15-Jan-1 8	Chun Tat House	Reside nt of Chun Tat House of On Tat Estate, 40/F	Constructio n Noise	SPRO mobile	NA	construction noise of breaking rock for a long time and strongly requested to know exactly when will be the completion date of the breaking rock part of works opposite to Chun Tat House. She said we should do more on the mitigation measures because our site is very	requirement. However, to eliminate the inconvenience caused to the nearby	no comment by IEC on 8 Feb 2018	TCS00864/1 6/300/F0130
23	1-Feb-18	2-Feb-18	Chi Tai House of On	Reside nt of On Tai Estate (referre d by Mr. Lam Wai)	Constructio n 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	no comment by IEC on 22 Feb 2018	TCS00864/1 6/300/F0137



Log ref.	Date of Complai nt	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									2018, there were no breaches of EM&A requirement.		
24	1-Feb-18	2-Feb-18	Shing Tat House of On Tat Estate	Reside nt of Shing Tat House (referre d by Mr. Hsu Yau Wai)	Constructio n Noise	SPRO hotline	NA	Mr. Hsu reported that some disturbing noise was heard after 6:00 pm from the site near Shing Tat House of On Tat Estate.	AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was only carried out from 8:00 to 18:00. However, rock breaking at System A was extended to 19:00 on 1 February 2018. As noise mitigation measures, noise barriers were erected for the works area. 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	TCS00864/1 6/300/F0140



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
25	28-Feb-1 8		Shing Tat House of On Tat Estate	Reside nt of Shing Tat House	Constructio n Noise	EPD	NA	探石仔噪音滋擾,田於單 位與地盤太近,堅持環保 署跟進及回覆如何處理	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	no comment by IEC on 19 Mar 2018	TCS00864/ 16/300/F01 43
26	11-Apr-1 8	12-Apr-1 8	Him Tat House of On Tat Estate	LIm	Constructio n Noise	SPRO mobile	NA	reported that the noise irritation was becoming more severe recently and asked about the completion date of the works close to Him Tat House. The resident suspected that the noise	noise mitigation measures at works area in System B to minimize the noise impact to the resident nearby. As	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b



Log ref.	Date of Complai nt			Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	l og rof	Date of Complaint
									practicable. The implementation of noise mitigation measures will be kept in view in subsequent site inspection.		
27	25-Apr-1 8	7-May-1 8	Junction of Hiu Kwong Street and Hiu Ming Street	name	Constructio n Noise	EPD	NA	This case is considered a Programme.	s an enquiry and no investigation is req	uired under	the EM&A
28	18-May- 18	24-May- 18	Anderson Road Quarry Site		Constructio n Noise	EPD	NA	投訴人指安達臣道石礦 場 地 盤 (NE/2016/01) 在 入夜 19:00 後仍見到有 長臂喉工程車在運作, 及持續產生大噪音及閃 燈,非常擾民。	Mechanical Equipment and complaint		TCS00864/ 16/300/F01 74b



Log ref.	Date of Complai nt	Receive		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
29	25-Jun-1 8	19-Jul-1 8	Pedestrian Connectivel y E8 under		Waste Managemen t	CEDD	NA	accumulation of dead leaves and branches found at slope (GLA-TNK 2458) near Hiu Yuk Path on 25 June	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.	by IEC on	TCS00864/ 16/300/F01 89b
30	22-Aug- 18		Hong W/ah	Reside nt of Hong Wah Court	Constructio n Noise	1823 Hotline	NA	古政電 1825 熟練投計, 指馬游塘區堆填區往將 軍澳方向行車入口因配 合項目需要而進行移除 山坡工程,但其鑽地鑿石 的噪音嚴重影響藍田康 雅苑*居民,要求有關部 門跟進。*註:投訴人於 2018 年 8 月 27 日更正指 戶影鄉屋茲應為藍四唐	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	by IEC on	TCS00864/ 16/300/F01 96a



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref	Date of Complaint
31	28-Aug- 18	31-Jul-1	Anderson Road Quarry Site		Constructio n Noise	EPD		盘,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	valid to the Project. Nevertheless,	no comment by IEC on 10 Oct 2018	TCS00864/ 16/300/F01 97a
32	6-Sep-18	7-Sep-18			Constructio n Noise	Verbal	NA	Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours.	Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. As advised by Kwan On, the rock breaking works shall tentatively be completed by end of December 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance.	no comment by IEC on 22 Oct 2018	TCS00864/ 16/300/F02 01

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og rof	Date of Complaint
33	24-Oct-1 8	25-Oct-1 8	E3		Constructio n Noise	Whatsap p Message	NA		completed to the road level in the middle	by IEC on 23 Nov	TCS00864/ 16/300/F02 09a
34	12-Nov- 18		Anderson Road Quarry Site	rotorro	Constructio	SPRO Hotline	NA	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	The SPRO contacted Mr. Hiu and explained to him about the purpose and benefits of the tunnel to the residents nearby and the expected date of completion of the tunnel will be earlier than 2020. Moreover, the noise mitigation measures had implemented to reduce the noise level effectively and the work progress will be closely updated to nearby stakeholders to enhance communication. Mr. Hiu satisfied with the reply from SPRO and he agreed that the proposed noise monitoring in Ching Tat House was not needed. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no breaches of legislative requirement.	no comment by IEC on 12 Dec 2018	TCS00864/ 16/300/F02 22a



Log ref.	Complai	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
35	14-Nov- 18	14-Nov-			Light and Noise	EPD		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/ 16/300/F02 23a
36	13-Nov- 18	14-Nov-	Road		Noise and dust	1823	NA	Complainant requested to postpone the starting time of construction work at project site and also to solve the problem of construction noise and dust.	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/ 16/300/F02 24



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	l og rot	Date of Complaint
37	9-Dec-18	12-Dec-1	Anderson Road Quarry Site		Constructio n noise	1823	2-49279 07305	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	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.	by IEC on 10 Jan 2019	TCS00864/ 16/300/F02 30a
38	19-Dec-1 8	27_Dec_1	Anderson Road Quarry Site	Undisc losed	Constructio n noise	1823	2-49480 74127	the complainant complained that noise barriers near the round-about at On Sau	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	by IEC on	TCS00864/ 16/300/F02 37a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Docoivo	-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
39	24-Jan-1 9	0	Anderson Road Quarry Site	Undisc losed	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 nearby Public Stormwater Drainage System.	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.	by IEC on	TCS00864/ 16/300/F02 48a
40	30-Jan-1 9	0	Anderson Road Quarry Site	Undisc losed	noise	SPRO hotline	NA	A public complaint was received by SPRO hotline on 30 January 2019 regarding the construction noise near Ma Yau Tong Village and requested to add noise barrier as soon as possible.	In our investigation, CWSTVJV had provided the noise mitigation measures to minimize the noise impact to the resident nearby. The impact monitoring result obtained at Ma Yau Tong Village revealed that the construction noise were within acceptable level. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement.		TCS00864/ 16/300/F02 49a
41	15-Feb-1 9	25-Feb-1	Anderson Road Quarry Site	Undisc losed	noise	1823	2-49480 74127	to CEDD on 15 February 2019, which the complainant complained	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	by IEC on 29 Mar	TCS00864/ 16/300/F02 51a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Complai	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref	Date of Complaint
								CEDD site near 法源寺 (Ma Yau Tong Village). The complainant requested for the details	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.		
42	21-Feb-1 9	0	Anderson Road Quarry Site	Undisc losed	noise	EPD	NA	The resident from Sau Hong House complained that the noise from the Anderson Road Quarry construction site has	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	no comment by IEC on 28 Mar 2019	TCS00864/ 16/300/F02 50

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt		Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
43	21-Feb-1 9	26-Feb-1 9	Anderson Road Quarry Site	Undisc losed	noise	received by DEVB and referred to CEDD	NA	A public complaint was received by DEVB and referred to CEDD on 25 February 2019 regarding on the noise generated from the construction works of the Anderson Road Quarry Site affecting a local resident residing at the Anderson Road Squatter Area	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.	by IEC on	TCS00864/ 16/300/F02 52a
44	1-Mar-1 9	26-Feb-1 9	E3 of Contract 2	Undisc losed	noise	CEDD	NA	A complaint is forwarded by CEDD which was received by KTDC member Mr CHENG Keung Fung from the residents of Tsui Yeung House(翠楊樓) about the noise nuisance generated and the working time up to 7:00 pm from the rock excavation of E3 lift tower. Follow up action is requested	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 poise impact to the nearby resident	by IEC on	TCS00864/ 16/300/F02 64



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									breach the Noise Control Ordinance.		
45	16-Jun-1 9	18-Jun-1 9	Dood	Undisc losed	noise	EPD	NA	CEDD on 17 June 2019	The Contractor explained that general cleaning by water jet was carried out in the construction site on the concerned day. Since the work did not involve the use of Powered Mechanical Equipment (PME), it would not violate the noise control ordinance. The Investigation report is underway by ET.		TCS00864/ 16/300/F03 01a
46	12-Jul-1 9	15-Jul-1 9	Pood	Undisc losed	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		



Log ref.	Complai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									addition to the dust mitigation measures implemented provided by the Contractor. Nevertheless, the ET will closely monitor the environmental performance and dust mitigation measures in subsequent site inspection. The IR is under reviewed by IEC.		
47	6-Aug-1 9	14-Aug- 19	Work Area Portion 2 E3 (Slope of Hiu Ming Street opposite of Tsui Yeung House)	(北)邨 物業服 務辦事	Noise	1823	NA	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	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance.	no comment by IEC on 16 Sep 2019	TCS00864/ 16/300/F03 10a



Log ref.	Date of Complai nt		Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
48	15-Oct-1 9	9	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchange Pedestrian Connectivit y Facilities E12)	Mr. Ng	Noise	1823		A public complaint was received by 1823 on 15 October 2019 relating to the noise generated from construction work at Tseung Kwan O Tunnel Bus to Bus Interchange Pedestrian Connectivity Facilities E12. The complainant expressed that the construction noise was generated from breaking work at 8:20 am without noise mitigation measure, which causing nuisance to the nearby residents.	implemented noise mitigation measures to 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	no comment by IEC on 13 Nov 2019	TCS00864/ 16/300/F03 26a
49	5-Nov-1 9	11-Nov- 19	Work Area Portion 2&3 (lift tower construction work at Hiu Kwong Street)	NA	Noise	EPD	NA	A public complaint was received by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3).	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	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 32a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
50	7-Nov-1 9		Work Area Portion 6	Mr. Cheng	Noise	EPD	NA	寶達邨居民鄭先生,表 示將軍澳隧道出口工程, 日 間 噪 音 嚴 重, 8:30-17:00,幾部幾同時 開動,而且無防音欄,之 前是有,現要求環保署 向對方反映改善	In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	by IEC on	TCS00864/ 16/300/F03 33a
51	10-Nov- 19	12-Nov- 19	Underpass	Undisc losed	Noise	EPD	NA	掘隧道工程,每天噪音不 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。	conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of	comment by IEC on	TCS00864/ 16/300/F03 37

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Complai		Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								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			
52	11-Nov- 19	20-Nov- 19	Constructio n site near on Tai Estate Ancillary Facilities Building on On Sau Road	Mr. Wong (reside nt of Yung Tai House of On Tai Estate)	Noise	1823	ref. 2-59763 03183	元成,並投訴具經常發出 噪音滋擾,要求部門跟 進。 On 22 November 2019, the project hotline received a call from the same complainant reported on the noise nuisance near On Sau Road and On Yan Street. He suggested to speed up	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	TCS00864/ 16/300/F03 38a

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx



Log ref.	Compiai	Docoivo	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								intermittence is suggested in order to speed up the works and to avoid waste of manpower.			
53	5-Mar-2 0	6-Mar-2 0	Road		Noise	EPD	NA	低音,希望能加裝隔音設備,工程不知何時將嘈音 減至最低。1. A public complaint was received by EPD on 5 March 2020 regarding the construction noise generated from the tunnel work of the subject site	In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic mat at boundary of System A. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 1 Apr 2020	TCS00864/ 16/300/F03 57a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
54	4-Mar-2 0		Near Hiu Ming Street Playground (E8)		Noise	1823	ref. 3-62832 37171	PM 持續个斷發出強烈的嘈音, 投訴人表示地 盤是在曉明街藍球場旁 邊的位置(投訴人未能告 知確實街號),因此要求 部門盡快回覆及告知有 關情況。 A public complaint was received by 1823 on 4 March 2020 regarding the construction noise. The complainant mentioned that there were two construction sites	In our investigation, CW-CMGCJV had implemented the noise mitigation measures for the works at upper section of E8 near Hiu Yuk Path and no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. It is considered that the complaint is likely related to another construction site located near Hiu Ming Street Playground and not caused by the works under the Project. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 59a
55	23-Mar- 20	73_Mar_	Near Lin Tak Road (E11)	Undisc losed		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,令梁先	In our investigation, the wheel washing facilities at site exit of E11 is one of the dust quality mitigation measures conducted by CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection, no outflow of muddy water from the site was observed and the condition of	by IEC on	TCS00864/ 16/300/F03 60a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								施改姜問題? A public			
56	17-Mar- 20	19-Mar-	Anderson Road Quarry Site	Reside nt of Yan Tat House	Noise	Project hotline	NA	許有為區議員接獲安達 邨仁達樓 2613 室居民反 映,安達臣道石礦場發展 用地工程噪音持續兩 年,要求工程團隊下周派 員到有關單位視察,並採 取可行的噪音緩解措 施。許有為區議員要求陪 同視察。 A public complaint was received by hotline on 17 March 2020 regarding the construction noise generated from the Anderson Road Quarry Site. The complainant mentioned that the	to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on		TCS00864/ 16/300/F03 61a



Log ref.	Complai	Doooiyo	Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								generated from the Anderson Road Quarry Site had been continued for two years.			
57	1-Apr-20	20-Apr-2 0	Work Area Portion 2	Undisc losed	Noise	1823	NA	程噪音滋擾了兩年多; 另外投訴人得知完工時 間要到 2021 年,投訴人 不明白為何工程頭尾要 3 年多時間.要求地政總 署直接以電郵回覆工程 長的原因及有沒有措施 解決地盤發出的噪音。 A public complaint was received by 1823 on 1 April 2020 and subsequently transmitted to Environmental Team (ET) on 20 April 2020,	to the contract. However, as the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.		TCS00864/ 16/300/F03 66a

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



L0g ref	Date of Complai nt	Docoivo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
58	11-May- 20		Work Area Portion 2	Undisc losed	Noise	Project hotline	NA	A public complaint was received by Project Hotline on 11 May 2020 regarding the noise generated from rock breaking work from a construction site opposite to Tsui Yeung House, which affecting his mother's health. The complainant enquired about the completion date	In our investigation, Kwan On has enhanced the noise mitigation measures to reduce the noise impact to the nearby resident. Based on the noise measurement result, the construction noise was reduced to acceptable level after the additional noise mitigation 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	28 May 2020	TCS00864/ 16/300/F03 70a
								standard and implementation of noise mitigation measures on site.			

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
59	18-Jun-2 0			Undisc losed	Noise	EPD	NA	Tat House. The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be	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/ 16/300/F03 91a
59#	23-Jul-2 0	24-Jul-2 0	Anderson Road Quarry Site near On Tat Estate	Undisc losed	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	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		TCS00864/ 16/300/F04 01



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								she requested relevant	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		
60	14-Nov- 20		Near Hiu Ming Street Playground (E8)		Noise	1823	NA	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	In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 24
61	4-Dec-20	7-Dec-20	Opposite to On Tai Estate – lower portion of Road L4	Undisc losed	Dust	EPD	NA	A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site opposite to On Tai Estate had dust emission problem due to lack of	In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. In view of the potential traffic dust impact and implementation of dust mitigation measures, it is considered that the complaint was not valid to the Project	no comment by IEC on 4 January 2021	TCS00864/ 16/300/F04 34
62	3-Dec-20		Ma Yau Tong	Undisc losed	Noise and dust	1823 & EPD	3-65741 41017	A public complaint was	In our investigation, CWSTVJV had provided the dust and noise mitigation	no comment	TCS00864/ 16/300/F04

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location		Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
			Village (East Portal)					the project. There were acoustic mats erected on the slope of East Portal, however, the complainant enquired about effectiveness of the noise	impact to the resident nearby. To response the concern from the	by IEC on 4 January 2021	35
63	7-Jan-21	7-Jan-21	System B	Reside nt 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	In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public.6. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 41

CEDD Service Contract No. EDO 8/2022 Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Compiai	Docoivo	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
64	18-Mar- 21	18-Mar- 21	Anderson Road Quarry Site (between On Tat Estate and On Tai Estate)	Undisc losed	Noise	1823 & EPD	NA	Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am	In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme	no comment by IEC on 1 April 2021	TCS00864/ 16/300/F04 54
65	1-Apr-21	1-Apr-21	Constructio n site near SKH St. John's Tsang Shiu Tim Primary School (System B under Contract 3)	Undisc losed	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	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	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 58a



Log ref.	Date of Complai nt		-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									measures as far as practicable as recommended in the EM&A Programme		
66	28-Mar- 21	30-Mar- 21	Road Quarry Site (between On Tat Estate and On Tai	Fung House of On	Noise	EPD		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	In our investigation, CWSTVJV had followed that CNP for work during restricted hour and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, some site areas had been handed over to other contract and construction noise generated from others is not controlled by the project. As a reminder, CWSTVJV should implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 22 April 2021	TCS00864/ 16/300/F04 59
67	11-Jun-2 1	11-Jun-2 1	Anderson Road Quarry Site	Reside nt of Chi Tat House, On Tai Estate	Noise	EPD	EPD Ref.: 13208-2 1	A public complaint was received by EPD on 11 June 2021 and complained about noise nuisance from multiple construction sites on Anderson Road Quarry Site. The complainant stated that there were noise nuisances from different construction	6. In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic barrier at boundary of concern works area. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement.	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 78a

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\December 2022\R0619v2.docx

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Docoivo		Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								Saturday without adequate noise mitigation measures. On 17 June 2021, the complainant added that the noise was generated from rock breaking works in front of Chi Tai House (not from the housing sites near the Tai Sheung Tok slope) and no mitigation measure was implemented for the rock breaking works.			
68	20&21/J une/21	23-Jul-2	Anderson Road Quarry Site	DSD	Water Quality	EPD	EPD Ref.: 13208-2 1	EPD received complaints from DSD on 20 and 21 July 2021 concerning about discharge of muddy water as found on Po Lam Road and at the drainage facility near Tin Hau temple.	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. In view of the site condition and inclement weather condition on the complaint days, it is considered that the complaints raised by DSD were unlikely due to the C1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.	no comment	TCS00864/ 16/300/F04 85b
69	14&16/S ep/21	15-Sep-	Anderson Road Quarry Site	DSD	Water Quality	EPD	NA	EPD received complaints	In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising		

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								discharge of muddy water as found at the catchpit SCH4003250 near Po Lam Road and catchpit SSH4001400 near Po Tat Tin Hau Temple.	from the construction site. However, there were incidents of seepage of silty water at Q2 and Q3 and rectified actions were undertaken immediately. Having investigated, the incidents were considered very short term and would not generate large amount of muddy water. In view of the inclement weather condition and there were other major sources, it is considered that the complaints raised by DSD were not fully contributed byC1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed.	6 October 2021	
70	23/Sep/2 1	29-Sep-2 1	Anderson Road Quarry Site	CEDD & EPD	Noteo	CEDD &EPD		A public complaint was referred by 1823 to both CEDD and EPD on 23 September 2021. The complainant stated that the construction works at Anderson Road Quarry Site started before 7am, which generated construction noise and	Our investigation revealed that there was no construction works under the Project undertaken during the concerned period by the complainant, and there were other concurrent contracts on Anderson Road Quarry Site and the contribution noise may be related to others. Therefore, it is considered that the noise complaint was unlikely to be related to the works under the Project. Nevertheless,	No comment by IEC on 15 November 2021	

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	-	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								resident of On Tat Estate. EPD have contacted the complainant and clarify that the concerned about construction dust and daytime construction noise after 7am.	CWSTVJV was reminded to properly maintain the noise mitigation measures as far as practicable considering the construction site is relatively close to residential area.		
71	30/Mar/2 2	12/Apr/2	Anderson Road Quarry Site	DSD	Water Quality	DSD		EPD received complaint from DSD on 28 March 2022 concerning about siltation and discharge of muddy water observed at the public drainage system at catchpit SSH4001400 near Tin Hau Temple and the site discharge points at Po Lam Road on 28 March 2022	In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors under rainy days and not due to the works under the Project.	No comment by IEC on 19 April 2022	TCS00864/ 16/300/F05 40
72	14/Apr/2 2	25/Apr/2	Anderson Road Quarry Site	DSD	Water Quality	DSD		DSD carried out site inspection at site discharge point at Po Lam Road on 12 April 2022 and observed discharge of muddy water at public drainage system. The case was then referred to CEDD and EPD to investigate the source of the muddy water discharge.	from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors and not due to the works under the Project.	comment by IEC on 16 May 2022	TCS00864/ 16/300/F05 41
73	11/May/	25/May/	Anderson	DSD	Water	DSD		EPD received complaint	Based on the above findings and	No	TCS00864/

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



L0g ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og rof	Date of Complaint
	2022		Road Quarry Site		Quality			muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road.	successive heavy rainstorm on 11 to 13 May 2022, it is considered the muddy water found in the concerned catchpit SSH4001400 near Tin Hau Temple and Po Lam Road on 11 to 13 May 2022 were likely caused by impact of rainstorm and partially contributed by the interfacing contractors at Sites R2-9 & R2-10.	comment by IEC on 13 June 2022	16/300/F55 9
74	17/May/ 2022	30/May/ 2022	Anderson Road Quarry Site	DSD	Water Quality	DSD		EPD received complaint from DSD on 14 and 16 May 2022 concerning about muddy water observed entering Tsui Ping River.	Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.	by IEC on	TCS00864/ 16/300/F56 2a
75	27/May/ 2022	9/Jun/20 22	Anderson Road Quarry Site	DSD	Water Quality	DSD		from DSD on 27 May 2022 concerning about muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road.	Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project.	by IEC on	TCS00864/ 16/300/F56 3
76	6, 7, 8/J un/2022		Anderson Road Quarry Site	DSD	Water Quality	DSD		informed that dirty water	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system,	EPD on 21	TCS00864/ 16/300/F56 5

CEDD Service Contract No. EDO 8/2022
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (December 2022)



Log ref.	Date of Complai nt	Receive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	l og rof	Date of Complaint
								Ping River this morning at the upstream near junction of Kai Lim Road and Tsui Ping Road. The situation has persisted			
77	14/Jun/2 022		Anderson Road Quarry Site	DSD	Water Quality	DSD		DSD concerning muddy water discharge found at Tin Hau Temple and Po Lam Road on 14 June pm.	several construction sites at upstream of	Sent to EPD on 29 June 2022	TCS00864/ 16/300/F56 6
78	8/Aug/20 22	8/Aug/20	Anderson Road Quarry Site	DSD	Water Quality	DSD		muddy water was observed entering Tsui Ping River in the morning of 8 August 2022, with similar situation at Tin	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning or afternoon of 8 August 2022.	comment by IEC on 19 September	TCS00864/ 16/300/F58 0



Log ref.	Date of Complai nt		Complaint Location	Compl ainant	-	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									It is therefore considered that the muddy water discharge observed by DSD in the morning of 8 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4.		
79	12/Aug/2 022		Anderson Road Quarry Site	DSD	Water Quality	DSD		DSD advised EPD that muddy water was observed entering Tsui Ping River in the morning of 12 August 2022, with similar situation at Tin Hau Temple and Po Lam Road (山渠).	As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning of 12 August 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 12 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4.	No comment by IEC on 19 September 2022	TCS00864/ 16/300/F58 1
80	29&30/S ep/2022	022&3 Oct 202		DSD	Water Quality	DSD		DSD's complaint was made to EPD who requested CEDD in the same respective mornings to handle and investigate in accordance with the procedure in EM&A Manual.	muddy water discharge from ARQ Site was evident in the morning of 29 and 30	Sent to EPD on 18 October 2022	TCS00864/ 16/300/F59 3



Log ref.	Compiai	Dessive	Complaint Location	Compl ainant		Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
									During wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the discharge quality from the Site to avoid non-compliance. The ET will pay special attention on water quality mitigation measures implementation on site through regular site inspection, and give advice on remedial action when necessary. Incidentally, it is noted that Site R2-9 has kept discharging muddy water to downstream manhole D310. Record photos of the manhole dated 6, 7 and 8 October 2022 are enclosed for reference.		
81	18/Oct/2 022	20/Oct/2 022	Anderson Road Quarry (ARQ) Site	DSD	Dust Quality	Referred by 1823 to EPD		referred by 1823 to EPD on 18 October 2022, regarding the dust problem generated from the construction site in Anderson Road near On Tai Estate due to typhoon signal no. 3. EPD contacted the complainant who was a resident of Shing Tai House, On Tai	In our investigation, both the Contractors had implemented dust mitigation measures to reduce to potential impact to the public. However, in particular during dry season, Contract 4 was reminded to enhance the dust suppressive measures as far as practicable. As there were no air monitoring results exceeding the limit level, it is considered that the dust mitigation measures implemented were effective in suppressing the fugitive dust. Nevertheless, as the construction site is close to the residential area, both the	Sent to EPD on 3 November 2022	TCS00864/ 16/300/F59 6



Log ref.	Date of Complai nt	Date of Receive d by ET	Complaint Location	Compl ainant	Complaint nature	Channel	Ref. no.	Complaint details	Follow up action	Log ref.	Date of Complaint
								the construction dust			



Appendix N

Implementation Status for Water Quality Mitigation Measures

Water Quality Mitigation Measure

