

JOB NO.: TCS00881/18 & TCS00944/18

SITE FORMATION AND ASSOCIATED INFRASTRUCTURAL WORKS FOR DEVELOPMENT OF COLUMBARIUM, CREMATORIUM AND RELATED FACILITIES AT SANDY RIDGE CEMETERY

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT Report (No.26) – September 2020

PREPARED FOR HSIN CHONG TSUN YIP JOINT VENTURE & SANG HING CIVIL CONTRACTORS CO., LTD

Reference No. Prepared By Certified By Date 14 October 2020 TCS00881/18/600/R0465v2

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

Version	Date	Remarks
1	12 October 2020	First Submission
2	14 October 2020	Amended according to the IEC's comments on 13 October 2020



Our Ref: TCS00881/18/300/L0466

Civil Engineering and Development Department 2/F, Civil Engineering and Development Building, 101 Princess Margaret Rd, Homantin, Kowloon

Attn: Mr. SHUM Ngai Hung, Steven

14 October 2020 By e-mail

Dear Sirs.

Site Formation and Associated Infrastructural Works for Development of Re: Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery Monthly Environmental Monitoring & Audit Report (No.26) – September 2020

We confirmed that the captioned report has complied with the requirement set out in the EM&A Manual, we hereby certify the captioned report pursuant to Specific Condition 3.4 of the Environmental Permit No. FEP-01/534/2017/A and EP-534/2017/A.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely, For and on Behalf of Action-United Environmental Services & Consulting (AUES)

T. W. Tam Environmental Team Leader TW/nh

ARUP (RE of Contract 1) cc ARUP (RE of Contract 2) HCTY-JV (Contractor of Contract 1) Sang Hing (Contractor of Contract 2) Acuity (IEC)

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Our ref: IECL20201014-2

Hsin Chong Tsun Yip Joint Venture (CV/2016/10) Hsin Chong Centre 107-109 Wai Yip Street Kwun Tong, Kowloon Hong Kong

Attention: Mr. HO Man-to

14 October 2020

Dear Sir,

Site formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery Monthly Environmental Monitoring and Audit Report (No. 26) September 2020

I refer to the email of the ET regarding the captioned Monthly Report. We have no adverse comment on the Monthly Environmental Monitoring and Audit Report (No. 26) September 2020 (Version 2) dated 14 October 2020 with reference No. TCS00881/18/600/R0465v2 after verification.

Yours faithfully,

CH Leung

Ir Leung CH Jacky Independent Environmental Checker

cc. CEDD-DPTL/Land Works – Mr. SHUM Steven ARUP – Mr. LEE Davis ET Leader – Mr. TAM



EXECUTIVE SUMMARY

ES.01. This is the 26th Monthly Environmental Monitoring and Audit (EM&A) Report summarizing the monitoring results and inspection findings under the Project for the period from 1st to 30th September 2020 (the Reporting Month).

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES.02. In the Reporting Month, the major construction works under the Project included Contract CV/2016/10 (hereinafter named "Contract 1") and Contract CV/2017/02 (hereinafter named "Contract 2"). Environmental monitoring activities under the EM&A programme in this Reporting Month are summarized in the following table.

Issues	Environmental Monitoring	Monitorin	Monitoring Locations		
Issues	Parameters / Inspection	CV/2016/10	CV/2017/02	Occasions	
Ain Quality	1-hour TSP	ASR-1	ASR-2	54	
Air Quality	24-hour TSP	ASK-1	ASR-3	18	
Construction Noise	L _{eq (30min)} Daytime	CN-1 CN-2	CN-3 CN-4	20	
Water Quality	In-situ measurement and Water sampling	M3	M1, M2 and M4	13	
Ecology	Sensitive Habitat	Transect within site area of CV/2016/10	Transect within site area of CV/2017/02	1	
Landscape & Visual	Site Inspection	Site area of CV/2016/10	Site area of CV/2017/02	1	
Inspection	Environmental Team (ET) Regular Environmental Site Inspection		Site area of	5	
& Âudit	Independent Environmental Checker (IEC) Monthly Environmental Site Audit		CV/2017/02	1	

 Table ES-1
 Summary of EM&A Programme in the Reporting Month

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES.03. In the Reporting Month, no exceedance of air quality, noise monitoring was recorded. For water quality monitoring, 2 Action Level and 8 Limit level non-project related exceedances were recorded. The statistics of environmental exceedance, Notification of Exceedance (NOE) issued and investigation of exceedance are summarized in the following table.

Table ES-2Breach of Action and Limit (A/L) Levels in the Reporting Month

Environmental Monitoring Action Limit		Limit	Event & Action		
Issues	Parameters	Level		Investigation Findings	Corrective Actions
Air Quality	1-hour TSP	0	0	-	-
Air Quality	24-hour TSP	0	0	-	-
Construction Noise	Leq _{30min} Daytime	0	0	-	-
	DO	0	0	-	-
Water Quality	Turbidity	1	4	Not project related	
	SS	1	4	Not project related	

Note: NOE – *Notification of Exceedance*

ES.04. Monthly ecological monitoring for sensitive habitat in both wetland and non-wetland for area of Contract 1 and Contract 2 were undertaken areas on 3^{rd} September 2020. In the Reporting Month, there was no precautionary check for the presence of nesting birds carried out for Contract 1 and Contract 2 outside the breeding season.



ES.05. Landscape and visual inspection at both Contracts were undertaken on 24th September 2020. The Contractor was reminded to prevent the construction material pile within Tree Protection Zone and ensure no works is allowed within the TPZ.

ENVIRONMENTAL COMPLAINT

ES.06. In the Reporting Month, one (1) environmental complaint was received from EPD regarding suspected illegal discharge from a CEDD's construction site at the upstream leading to the accumulation of silting at DSD's drainage channel at the downstream Nam Hang Stream. In our investigation, there was no evident of muddy/ turbid discharge from the construction site and water quality mitigation measures implemented in Contract 2 was general in order and no deficiency of water quality impact was observed during weekly site inspection. It is considered that the complaint was not valid to the Contract. However, the Contractor was reminded to fully follow the mitigation measures as recommended in the EM&A Manual as far as practicable to minimize the impact and nuisance to the public. The statistics of environmental complaint are summarized in the following table.

Table ES-3Environmental Complaint Summaries in the Reporting Month

Reporting Month		Environmental Complaint Statistics			
		Frequency	Cumulative	Complaint Nature	
1 20 Sontombor 2020	Contract 1	0	0	NA	
1 – 30 September 2020	Contract 2	1	1	Water	

ES.07. In addition, no complaint and emergency event relating to violation of environmental legislation for illegal dumping and landfilling was received.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.08. No environmental summons or successful prosecution was recorded in this Reporting Month. The statistics of summons or successful prosecutions are summarized in the following tables.

Table ES-4 Environmental Summons Summaries in the Reporting Month

Reporting Month		Environmental Summons Statistics		
		Frequency	Cumulative	Summons Nature
1 – 30 September 2020	Contract 1	0	0	NA
1 - 50 September 2020	Contract 2	0	0	NA

Table ES-5Environmental Prosecution Summaries in the Reporting Month

Reporting Month		Environmental Prosecution Statistics		
		Frequency	Cumulative	Prosecution Nature
1 20 Santambar 2020	Contract 1	0	0	NA
1 – 30 September 2020	Contract 2	0	0	NA

REPORTING CHANGE

ES.09. No reporting change was made in the Reporting Month.

SITE INSPECTION

ES.010. In the Reporting Month, joint site inspections for Contract 1 to evaluate the site environmental performance were carried out by the Resident Engineer (RE), ET and the Contractor of the Contract 1 on 3rd, 10th, 17th, 24th and 30th September 2020. Moreover, joint site inspections for Contract 2 by the RE, ET and the Contractor of Contract 2 were carried out on 3rd, 10th, 17th, 24th and 30th September 2020. IEC attended the both Contract joint site inspection on 17th September 2020. No non-compliance was noted during the site inspections.

FUTURE KEY ISSUES

ES.011. During wet season, the Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in



particular to prevent surface runoff and other pollutants from flowing to local stream and Conservation Area.

- ES.012. Since dry season is approaching, air quality mitigation measures such as wheel wash facilities, watering of haul roads, loose soil construction surface and covering of dusty materials with tarpaulin sheet should be implemented as far as practicable.
- ES.013. Construction noise mitigation measures such as use of movable noise barriers and Quality Powered Mechanical Equipment should be properly provided to reduce construction noise impact, where appropriate.
- ES.014. The Contractors should properly maintain the cleanliness and tidiness of the site. In addition, mosquito control should be performed to prevent mosquito breeding on site.



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1. INTRODUCTION

1.1 PROJECT BACKGROUND

1.1.1 Civil Engineering and Development Department (CEDD) is the Project Proponent for the Project "Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery". The Project is a Designated Project to be implemented under Environmental Permit No. EP-534/2017/A and FEP-01/534/2017/A. The layout plan of the Project is shown in Appendix A. Major works to be executed under the Project shall include to the following:

A Designated Works under EP-534/2017/A

- Site formation of about 8 hectares of land and associated drainage, sewerage and landscape works for development of Columbarium and Crematorium facilities at the Sandy Ridge Cemetery;
- (ii) Construction of a new road (about 600m) including a section of viaduct connecting the platform for Crematorium and Man Kam To Road and the pick-up/drop-off point at Man Kam To Road;
- (iii) Widening of about 900m of the existing Sha Ling Road;
- (iv) Widening of about 1.4km of the existing Lin Ma Hang Road; and
- (v) Improvement works to the existing barging point at Siu Lam

Non-Designated Works

- (i) Construction of a sewage detention tank complete with odour and septicity control mechanism;
- (ii) Construction of noise barriers along Sha Ling Road;
- (iii) Construction of a new Refuse Collection Point (RCP) near the junction between Man Kam To Road and Sha Ling Road;
- (iv) Landscaping works (including both hard and soft landscape works);
- (v) Associated tree felling, transplanting and compensatory planting works;
- (vi) Associated street lighting, street furniture and road marking, etc.; and
- (vii) Other works which are specified in PS of the Contract.
- 1.1.2 To facilitate the Project management, the Project works were separated into three Contracts to be executed which are described in below sub-sections.
- 1.1.3 Contract No. CV/2016/10 Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery (hereinafter named "Contract 1"):-
 - Site formation of about 1.77 ha of land for the proposed pick-up and drop-off area for shuttle bus operation;
 - Upgrading of a section of 900m existing Sha Ling Road from 3m wide carriageway to 7.3m wide carriageway with footpath at both sides;
 - Construction of one EVA with a total length of about 160m;
 - Construction of noise barriers along Sha Ling Road;
 - Modification of junction between Man Kam To Road and Sha Ling Road;
 - Construction of a new pick up / drop off point at Man Kam To Road;
 - Relocation and construction of a new refuse collection point near junction between Man Kam To Road and Sha Ling Road;
 - Associated geotechnical works including cut and fill slopes, soil nailing works and retaining structures;
 - Associated drainage, sewerage and waterworks along Sha Ling Road; and
 - Associated landscaping works.
- 1.1.4 Contract No. CV/2017/02 Infrastructural Works at Man Kam To Road and Lin Ma Hang Road for Development of Columbarium at Sandy Ridge Cemetery (hereinafter named "Contract 2"):-
 - Construction of a new road connecting Columbarium site to Crematorium site;
 - Construction of one EVA with a total length of about 300m;
 - Widening of a section of 1.4 km long Lin Ma Hang Road (between Man Kam To Road and Ping Yuen River) from 6m wide carriageway to 7.3m with 2m width footpath on both sides;
 - Provision of a pair of lay-by at Lin Ma Hang Road;
 - Construction of a new vehicular access connecting the Sheung Shui Landmark North PTI and Lung Sum Avenue;



- Construction of covered walkway along Fanling Station Road;
- Removal of planters and central divider along Fanling Station Road and San Wan Road;
- Associated drainage, sewerage, waterworks and utility works along Man Kam To Road and Lin Ma Hang Road;
- Associated geotechnical works including cut and fill slopes, soil nailing works and retaining structures; and
- Associated landscaping works.
- 1.1.5 CEDD Contract No. (to be confirmed):-
 - Site Formation for the platform of the columbarium site;
 - Construction of two 2 at-grade access roads;
 - Construction of road junction between Man Kam To Road and the new access road;
 - Associated drainage, sewerage and waterworks along the two new access roads;
 - Associated geotechnical works including cut and fill slopes, soil nailing works and retaining structures; and
 - Associated landscaping works
- 1.1.6 Hsin Chong Tsun Yip Joint Venture (hereafter referred as "HCTYJV") has been awarded Contract 1 on 5 December 2017. According to the Contract requirement, HCTYJV shall take over the responsibility for part of the Environmental Permit No. EP-534/2017 for ease of management, therefore application for Further Environmental Permit was submitted by HCTYJV to EPD on 26 January 2018 and Further Environmental Permit No. FEP-01/534/2017 was granted to HCTYJV by EPD on 23 February 2018. Furthermore, EPD issued Environmental Permit No. FEP-01/534/2017/A on 24 December 2018.
- 1.1.7 Sang Hing Civil Contractors Company Limited (hereinafter referred as "Sang Hing") was awarded Contract 2 on 23 May 2018. The Contract Works is a Designated Project as under Environmental Permit (EP) No. EP-534/2017. Furthermore, EPD issued Environmental Permit No. EP-534/2017/A on 24 December 2018.
- 1.1.8 Action-United Environmental Services & Consulting (AUES) has been commissioned by the Contractors as an Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme in accordance with the approved EM&A Manual as well as the associated duties. As part of the EM&A programme, baseline monitoring to determine the ambient environmental conditions was completed before construction work commencement. The Baseline Monitoring Report (air, noise and water) certified by ET Leader (ETL) and verified by Independent Environmental Checker (IEC) was submitted to Environmental Protection Department (EPD) and it was approved by EPD on 25 October 2018.
- 1.1.9 Major construction work of Contract 1 and Contract 2 was commenced on 16 August 2018 and 5 November 2018 respectively.
- 1.1.10 This is the **26th** Monthly EM&A Report summarizing the monitoring results and inspection findings for the period from **1st** to **30th** September 2020.

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 Monitoring Requirements Section 4 Air Quality Monitoring Results Section 5 Noise Monitoring Results Section 6 Water Quality Monitoring Results Section 7 Ecology Monitoring Results Landscape & Visual Section 8 Section 9 Waste Management Section 10 Site Inspections



Section 11 Environmental Complaints and Non-Compliance

- Section 12 Implementation Status of Mitigation Measures
- Section 13 Conclusions and Recommendation



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 the following contracts:
 - Contract 1 (Contract No. CV/2016/10)
 - Contract 2 (Contract No. CV/2017/02)
 - Contract 3 (Contract No. TBA)
- 2.1.2 Organization structure and contact details of relevant parties with respect to on-site environmental management are shown in *Appendix B*.

2.2 CONSTRUCTION PROGRESS

2.2.1 The three-month rolling construction programme for Contract 1 and Contract 2 are enclosed in *Appendix C*. Construction activities of the Contract 1 and Contract 2 undertaken in the Reporting Month are presented below.

Contract 1 (CV/2016/10)

- General site housekeeping
- Bulk excavation
- Construction of cut slope, installation of soil nailing and construction of surface channel and planter wall
- Construction of fill slope and surface channel
- Construction of pick-up and drop-off Point near Man Kam To Road
- Construction of storm/ sewer drain
- Construction of noise barrier

Contract 2 (CV/2017/02)

- Construction of manhole, gullies, drainage pipe at Lin Ma Hang Road between CH565-675 Northbound & CH1265-1365 Southbound.
- Man Kam To Road DN800 DI Sewerage Pipe FM4.18-4.19(50m)
- Reinstatement for Man Kam To Road DN800 DI Sewerage Pipe Trench FM4.19-FM4.23 (170m)
- Soil Nail Works at Lin Ma Hang Road Slope C225 & C231
- Filling Works and drainage works for slope FS18 (Part A1).
- Backfilling of Retaining Wall 13
- Piling Works for Retaining Wall 14

2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.3.1 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project in this Reporting Month is presented in *Tables 2-1 and 2-2*.

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

Item	Description	License/ Permit ref no.	License/ Permit Status
1	Air Pollution Control	Ref. no. 428909	Valid
	(Construction Dust) Regulation	Acknowledged by EPD on 20/12/2017	
2	Chemical waste Producer	WPN: 5231-641-H3937-01	Valid
	Registration	Issued by EPD on 27/03/2018	
3	Water Pollution Control	License no. WT00030795-2018	Valid
	Ordinance	Issued date: 9/5/2018	
		Expire Date: 31/5/2023	
4	Billing Account for Disposal	Account no.: 7029769	Valid
	of Construction Waste		
5	Construction Noise Permit	GW-RN0222-20 (expired on 30 Sep	Valid



Item	Description	License/ Permit ref no.	License/ Permit Status
		2020)	

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

Item	Description	License/ Peri	mit ref no.	License/ Permit Status
1	Air Pollution Control (Construction Dust) Regulation	Ref. no. 440406 Acknowledged by EPD on 14/12/2018	Man Kam To Road (near Sha Ling Road to Kong Nga Po Road	Valid
		Ref. no. 440405 Acknowledged by EPD on 14/12/2018	Fanling Station Road	Valid
		Ref. no. 440404 Acknowledged by EPD on 14/12/2018	Sa Ling Road (Sandy Ridge Cemetery)	Valid
		Ref. no. 440401 Acknowledged by EPD on 14/12/2018	Lin Ma Hang Road (San Uk Ling – Muk Wu Nga Yiu)	Valid
		Ref. no. 440402 Acknowledged by EPD on 14/12/2018	Lung Sum Avenue (near Landmark North)	Valid
2	Chemical waste Producer Registration	WPN: 5213-641-S4151-01 Issued by EPD on 04/02/2019		Valid
3	Water Pollution Control Ordinance	License no: WT00032936-2018 Issued date: 16/01/2019 Expire Date: 31/01/2024	Man Kam To Road & Lin Ma Hang Road, Man Kam To	Valid
		License no: WT00033335-2019 Issued date: 29/03/2019 Expire Date: 31/03/2024	Columbarium at Sandy Ridge Cemetery	Valid
		License no: WT00034717-2019 Issued date: 9/10/2019 Expire Date: 31/10/2024	Fanling Station Road	Valid
4	Billing Account for Disposal of Construction Waste	Account no.: 7031098		Valid

2.4 SUMMARY OF SUBMISSION UNDER THE ENVIRONMENTAL PERMIT REQUIREMENTS

2.4.1 *Tables 2-3 to 2-4* summarized the submission status under the EP and/or FEP stipulation in the Reporting Month.

Item	EP and / or FEP Stipulation	Description	Status
1		Management organization of : i) the main	Submitted on 11 April 2018
		construction companies; ii) ET; and iii)	
		IEC and the supporting team	
2	Condition 2.11 of FEP		Submitted on 12 April 2018
		construction works; and ii) Location plan	
		of all construction works	
3	Condition 2.12 of FEP	Contamination Assessment Plan (CAP)	Approved by EPD on 27 May
			2019
4	Condition 2.13 of FEP	Grassland Reinstatement Plan	Re-submitted on 31 May 2019



Item	EP and / or FEP Stipulation	Description	Status
5	Condition 2.14 of FEP	Vegetation Survey Report for Contract 1	Approved by EPD on 12 October 2018
6	Condition 2.15 of FEP	Vegetation Transplantation Proposal Contract 1	Approved by EPD on 12 October 2018
7	Condition 2.17 of FEP	Woodland Compensation Plan (Rev.05)	Approved by EPD on 30 Jun 2020
8	Condition 2.18 of FEP	Monitoring and Survey Plan for Golden-headed Cisticola for Contract 1 (Rev.02)	Approved by EPD on 22 Oct 2019
9	Condition 2.20 of FEP	Landscape & Visual Mitigation and Tree Preservation Plan(s) Contract 1 (Rev.04)	Re-submitted on 17 Apr 2020
10	Condition 2.22 of FEP	Traffic Noise Mitigation Plan Contract 1 (Rev. 4)	Re-submitted on 10 Nov 2019
11	Condition 3.3 of the FEP	Baseline Monitoring Report (Air, Noise and Water)	Approved by EPD on 25 October 2018
12	Condition 4.2 of the FEP	The Contract Internet website	Internet website address has notified EPD on 15 Jun 2018

Table 2-4Status of Submission as under EP

Item	EP and / or FEP Stipulation	Description	Status
1a	Condition 2.10 of EP	Management organization of : i) the main construction companies; ii) ET; and iii) IEC and the supporting team	Submitted on 24 September 2018
2a	Condition 2.11 of EP	i) Detailed phasing programme of all construction works; and ii) Location plan of all construction works	Submitted on 26 September 2018
3	Condition 2.13 of EP	Contamination Assessment Plan (CAP)	Approved by EPD on 27 May 2019
4	Condition 2.14 of EP	Grassland Reinstatement Plan	Re-submitted on 31 May 2019
5	Condition 2.15 of EP and	Vegetation Survey Report Contract 2	Re-submitted on 30 Oct 2019
6	Condition 2.16 of EP	Vegetation Transplantation Proposal Contract 2	Re-submitted on 30 Oct 2019
7	Condition 2.18 of EP	Woodland Compensation Plan (Rev.05)	Approved by EPD on 30 Jun 2020
8	Condition 2.19 of EP	Monitoring and Survey Plan for Golden-headed Cisticola Contract 2	Re-submitted on 30 Oct 2019
9	Condition 2.22 of EP	Landscape & Visual Mitigation and Tree Preservation Plan(s) Contract 2	Re-submitted on 25 Mar 2019
10	Condition 2.24 of EP	Traffic Noise Mitigation Plan Contract 2	Re-submitted on 12 Aug 2019
11	Condition 3.3 of the EP	Baseline Monitoring Report (Air, Noise and Water)	Approved by EPD on 25 October 2018
12	Condition 4.2 of the EP	The Contract Internet website	Internet website address has notified EPD on 15 June 2018



3. SUMMARY OF IMPACT MONITORING REQUIREMENT

3.1 GENERAL

- 3.1.1 The EM&A requirements are set out in the Approved EM&A Manual. Environmental issues such as air quality, construction noise, water quality and ecology 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 impact monitoring shall cover the following environmental aspect:
 - Air quality;
 - Construction noise;
 - Water quality;
 - Ecology; and
 - Landscape and visual

3.2.2 A summary of the monitoring parameters is presented in *Table 3-1* below

Table 3-1Summary of EM&A Requirements

Environmental Issue	Parameters	
Air Quality	1-hour TSP;24-hour TSP	
Noise	 Leq_(30min) during normal working hours.; and Leq_(15min) during the construction works undertaken in Restricted Hours 	
Water Quality	 In-situ Measurements Dissolved Oxygen Concentration (mg/L) & Saturation (%); Temperature (°C); Turbidity (NTU); Salinity (ppm) pH unit; Water depth (m); and Stream Flow Velocity (m/sec). Laboratory Analysis Suspended Solids (mg/L) 	
Ecology	Ecologically sensitive habitats (wetland habitats and non-wetland habitats)	

3.3 MONITORING LOCATIONS

- 3.3.1 According to the Approved EM&A Manual of the Project *Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery*, the designated monitoring locations for air quality, noise, water quality and ecology under the monitoring programme, is shown in *Appendix D*.
- 3.3.2 Since the Project was divided into three Works Contracts and all Contracts will be commenced at different time, the construction phase impact monitoring will only be performed at the Contract-related monitoring stations upon commencement of each Contract Works.

<u>Air Quality</u>

3.3.3 There were three (3) designated air quality monitoring stations recommended in the Approved EM&A Manual Section 5.6.1.1. There was proposed relocation of air quality monitoring location ASR-3 in October 2018 since the landlord refused to set up the HVS at his premises and nearby Conservation Area due to noise nuisance and Muk Wu Nga Yiu House No. 2A was proposed as alternative location ASR-3a. The proposal dated on 9 November 2018 which verified by IEC was submitted to EPD for approval. Based on rationale in Section 3.3.2, the Contract-related air quality monitoring location for construction phase were summarized in *Table 3-2* and illustrated in *Appendix D*.



		8 9	
Location ID	Description in EM&A Manual	Location	Related Work Contract
ASR-1	Village House along Man Kam To	Sha Ling Village House No.6	Contract 1
	Road		
ASR-2	Village House at San Uk Ling	San Uk Ling Village House No.1	Contract 2
ASR-3	Village House at Muk Wu Nga Yiu	Muk Wu Nga Yiu House No.28	Contract 2
ASR-3a (#)	Village House at Muk Wu Nga Yiu	Muk Wu Nga Yiu House No.2A	Contract 2

 Table 3-2
 Designated Air Quality Monitoring Location under the Project

Remark: (#) There was proposed relocation of air quality monitoring location ASR-3 in October 2018. The proposal dated on 9 November 2018 after verified by IEC was submitted to EPD for approval.

- i) Be at the site boundary or such locations close to the major dust emission source;
- ii) Close to the sensitive receptors;
- iii) Take into account the prevailing meteorological conditions;
- iv) For monitoring location located in the vicinity of the ASRs, care shall be taken to cause minimal disturbance to the occupants during monitoring.
- v) When positioning the HVS, the following points shall be noted:
 - a. a horizontal platform with appropriate support to secure the samples against gusty wind shall be provided;
 - b. no two samplers shall be placed less than 2m apart;
 - c. the distance between the HVS and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the HVS;
 - d. a minimum of 2 m separation from walls, parapets and penthouses is required for HVS at the rooftop;
 - e. a minimum of 2 m separation from any supporting structure, measures horizontally is required;
 - f. no furnace or incinerator flue is nearby;
 - g. airflow around the sampler is unrestricted;
 - h. the HVS is more than 20 m from the dripline;
 - i. any wire fence and gate to protect the HVS, shall not cause any obstruction during monitoring;
 - j. permission must be obtained to set up the HVS and to obtain access to the monitoring stations; and
 - k. a secured supply of electricity is needed to operate the HVS.

Construction Noise

3.3.5 There were four (4) designated noise monitoring locations recommended in the Approved EM&A Manual Section 6.5.1.1. Based on rationale in Section 3.3.2, the Contract-related noise quality monitoring location for construction phase were summarized in *Table 3-3* and illustrated in *Appendix D*.

 Table 3-3
 Designated Construction Noise Monitoring Location under the Project

Locatio n ID	Description in EM&A Manual	Location	Related Work Contract
CN-1	Village house to the west of	Village house to the west of Sha Ling	Contract 1
	Sha Ling Road	Road (free field condition)	
CN-2	Village house to the north of	Sha Ling Village House No. 25 (free	Contract 1
	Man Kam To Road	field condition)	& 3
CN-3	Village house near San Uk	San Uk Ling Village House No. 18 (free	Contract 2
	Ling	field condition)	
CN-4	Village house of Muk Wu	Muk Wu Village House No. 267 (1m	Contract 2
		façade from the building)	

^{3.3.4} If the designated monitoring location is required to relocate, alternative monitoring location shall agree with IEC and seek for EPD approval which shall meet the following criteria:



Water Quality

3.3.6 There were four (4) water quality monitoring locations recommended in the Approved EM&A Manual Section 7.6.1.2. The locations and coordinates of water quality monitoring were listed in *Table 3-4*. Based on rationale in Section 3.3.2, the Contract-related water quality monitoring location for construction phase were summarized in *Table 3-4* and illustrated in *Appendix D*.

Proposed	Co-ordinates		Description	Related Work
Location ID	North	East	Description	Contract
M1	843 431	831 308	Midstream of Nam Hang Stream	Contract 2
M2	843 840	831 101	Downstream of Nam Hang Stream	Contract 2
M3	843 509	830 040	Wetland in the Conservation Area near Yuen Leng Chai	Contract 1
M4	843 997	831 783	Watercourse across Lin Ma Hang Road, running from east of San Uk Ling to Man Kam To Boundary Control Point	Contract 2

Table 3-4Designated Water Quality Monitoring Stations under the Project

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 The requirements of impact monitoring were stipulated in *Sections 5.8.1.1, 6.7.1.1* and *7.8.1.4* of the approved *EM&A Manual* and presented as follows.

Air Quality Monitoring

- 3.4.2 Monitoring frequency for air quality impact monitoring is as follows:
 - 1-Hour TSP 3 sets of 1-hour TSP monitoring shall be carried out once every six days during construction periods
 - 24-Hour TSP 24-hour TSP monitoring shall be carried out every six days during construction periods

Noise Monitoring

3.4.3 Noise impact monitoring shall be carried out once per week during construction periods. The noise measurement for the time period between 0700 and 1900 hours shall be measured in terms of L_{eq} (30 minutes) or 6 sets of L_{eq} (5mins).

Water Quality Monitoring

3.4.4 The monitoring frequency shall be 3 days per week during construction phase and the interval between two sets of monitoring shall not be less than 36 hours.

3.5 MONITORING EQUIPMENT

3.5.1 The monitoring equipment using for the EM&A program as proposed by the ET shall be verified by the IEC.

Air Quality Monitoring

- 3.5.2 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 ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to IEC for approval.
- 3.5.3 The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.
- 3.5.4 All equipment used by ET for air quality monitoring is listed in *Table 3-5*.

Table 3-5	Air Quality Monitoring Equipment
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Equipment	Model
24-hour TSP	
High Volume Air Sampler (HVAS)	TISCH High Volume Air Sampler, HVS Model TE-5170
Calibration Kit	TISCH Model TE-5025A
1-Hour TSP	
Portable Dust Meter	Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter

 $Z: \label{eq:loss} 2018 \ CV-2016-10) \ 600 \ EM\&A \ Report \ Submission \ Monthly \ Report \ 2020 \ 26th \ Month \ (Sep \ 2020) \ R0465v \ 2.doc \ 2.d$



Wind Data Monitoring Equipment

- 3.5.5 According to the approved EM&A Manual, wind data monitoring equipment shall also be provided and set up for logging wind speed and wind direction near the dust monitoring locations. The equipment installation location shall be proposed by the ET and agreed with the IEC. For installation and operation of wind data monitoring equipment, the following points shall be observed:
 - 1) The wind sensors should be installed 10 m above ground so that they are clear of obstructions or turbulence caused by buildings.
 - 2) The wind data should be captured by a data logger. The data shall be downloaded for analysis at least once a month.
 - 3) The wind data monitoring equipment should be re-calibrated at least once every six months.
 - 4) Wind direction should be divided into 16 sectors of 22.5 degrees each.
- 3.5.6 ET has liaised with the premises owners/ landlords to grant the permission for the HVS installation. However, they rejected to set up wind data monitoring equipment installation in their premises.
- 3.5.7 Under this situation, the ET proposed to obtain representative wind data from the Hong Kong Observatory Ta Kwu Ling Weather Station. Ta Kwu Ling Station is located near the Project site which situated at the sea level above 15mPD and the wind data monitoring equipment is installed 10 m above the existing ground.

Noise Monitoring

- 3.5.8 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 before each noise monitoring event. Noise measurements should not be made in fog, rain, wind with a steady speed exceeding 5 m s⁻¹ or wind with gusts exceeding 10 m s⁻¹.
- 3.5.9 Noise monitoring equipment used for impact monitoring is listed in *Table 3-6*.

Equipment	Model
Integrating Sound Level Meter	Rion NL-52 Sound Level Meter
Calibrator	Rion NC-73 Acoustical Calibrator
Portable Wind Speed Indicator	Testo Anemometer

Table 3-6Noise Monitoring Equipment

3.5.10 Sound level meters listed above comply with the *International Electrotechnical Commission Publications 651: 1979 (Type 1)* and *804: 1985 (Type 1)* specifications, as recommended in TM issued under the NCO.

Water Quality Monitoring

3.5.11 Water quality parameters include dissolved oxygen, water temperature & depth, turbidity, salinity, pH and stream flow velocity shall be measured *in-situ*, and suspended solids shall be analyzed by a HOKLAS-accredited testing laboratory.

Dissolved Oxygen and Temperature Measurement

- 3.5.12 The dissolved oxygen (DO) measuring instruments should be portable and weatherproof. The equipment should also complete with cable and sensor, and DC power source. It should be capable of measuring:
 - A DO level in the range of 0 20 mg/L and 0 200% saturation; and
 - A temperature of 0 45 degree Celsius.
- 3.5.13 The equipment should have a membrane electrode with automatic temperature compensation complete with a cable.



3.5.14 Should salinity compensation not be built-in to the DO equipment, in-situ salinity should be measured to calibrate the DO measuring instruments prior to each measurement.

Turbidity Measurement

3.5.15 The turbidity measuring instruments should be a portable and weatherproof with DC power source. It should have a photoelectric sensor capable of measuring turbidity level between 0–1000 NTU (for example, Hach model 2100Q or an approved similar instrument).

Salinity Measurement

3.5.16 A portable salinometer capable of measuring salinity in the range of 0–40 parts per thousand (ppt) should be provided for measuring salinity of the water at each monitoring location.

<u>pH Measurement</u>

3.5.17 A portable pH meter capable of measuring a range between 0.0 and 14.0 should be provided to measure pH under the specified conditions accordingly to the APHA Standard Methods.

Water Depth Measurement

3.5.18 A portable, battery-operated echo sounder or an approved similar instrument should be used for water depths determination at each designated monitoring station.

Stream Flow Velocity Equipment

3.5.19 Since the EM&A Manuals do not specified instrument to use stream flow velocity measurement, the monitoring of stream flow velocity is therefore proposed to be conducted by using a flow probe which is a digital water velocity meter.

Water Sampling Equipment

- 3.5.20 A water sampler is required for suspended solid (SS) monitoring. A water sampler e.g. Kahlsico Water Sampler, which is a transparent PVC cylinder with capacity not less than 2 litres, will be used for water sampling if water depth over than 0.5m.
- 3.5.21 For sampling from very shallow water depths e.g. <0.5 m, water sample will be collected from water surface below 100mm using plastic bottle to avoid inclusion of bottom sediment or humus. Moreover, Teflon/stainless steel bailer or self-made sampling buckets maybe used for water sampling. The equipment used for sampling will be depended the sampling location and depth situations.

Sample Containers and Storage

- 3.5.22 Water samples for suspended solid should be stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen) and delivered to the laboratory within 24 hours of collection and be analyzed as soon as possible after collection.
- 3.5.23 Analysis of suspended solids should be carried out in a HOKLAS or other accredited laboratory. Water samples of about 1L should be collected at the monitoring stations for carrying out the laboratory suspended solids determination. The SS determination work should start within 24 hours after collection of the water samples. The SS analyses should follow the *APHA Standard Methods* 2540D with Limit of Reporting of 2 mg/L.
- 3.5.24 Details of the equipment used for water quality monitoring are listed in *Table 3-7* below.

Table 3-7Water Quality Monitoring Equipment

Equipment	Model
Water Depth Detector	Tape measures
Water Sampler	A 2-litre transparent PVC cylinder with latex cups at both ends or Teflon/stainless steel bailer or self-made sampling bucket
Thermometer & DO meter	YSI Professional DSS/ YSI 550A
pH meter	AZ8685 pH meter / YSI Professional DSS



Equipment	Model
Turbidimeter	Hach 2100Q/ YSI Professional DSS
Salinometer	Atago refractometer Atago S Salinity Meter / YSI Professional DSS
Stream Flow Velocity	FP211 Global Flow Probe
Sample Container	High density polythene bottles (provided by laboratory)
Storage Container	'Willow' 33-litter plastic cool box with Ice pad

3.5.25 Furthermore, Suspended solids (SS) analysis was carried out by *ALS Technichem (HK) Pty Ltd*. Which is one a local HOKLAS-accredited laboratory

3.6 EQUIPMENT CALIBRATION

- 3.6.1 The HVAS is operated and calibrated on a regular basis in accordance with the manufacturer's instruction using Tisch Calibration Kit Model TE-5025A. Calibration would carry out at fortnightly interval. The calibration data are properly documented and the records are maintained by ET for future reference. Furthermore, Tisch Calibration Kit will be calibrated by the manufacturer in yearly basis.
- 3.6.2 The 1-hour TSP meter calibrated by a local HOKLAS-accredited laboratory would be undertaken in yearly basis. Zero response of the equipment was checked before and after each monitoring event.
- 3.6.3 The sound level meter and acoustic calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis.
- 3.6.4 The multi-parameter Water Quality Monitoring System is calibrated by HOKLAS accredited laboratory of three month intervals.
- 3.6.5 All updated calibration certificates of the monitoring equipment used for the impact monitoring program in this Reporting Month are attached in *Appendix E*.

3.7 DATA MANAGEMENT AND DATA QA/QC CONTROL

- 3.7.1 The impact monitoring data are handled by the ET's systematic data recording and management, which complies with in-house Quality Management System. Standard Field Data Sheets (FDS) are used in the impact monitoring program.
- 3.7.2 The monitoring data recorded in the equipment e.g. 1-hour TSP meter, noise meter and Multi-parameter Water Quality Monitoring System are downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data are input into a computerized database properly maintained by the ET. The laboratory results are input directly into the computerized database and QA/QC checked by personnel other than those who input the data. For monitoring activities require laboratory analysis, the local laboratory follows the QA/QC requirements as set out under the HOKLAS scheme for all laboratory testing.

3.8 DETERMINATION OF ACTION/LIMIT (A/L) LEVELS

3.8.1 The baseline monitoring results form the basis for determining the environmental acceptance criteria for the impact monitoring. The air quality, construction noise and water quality criteria, namely Action and Limit levels were established according to Approved EM&A Manual, and they are listed in *Tables 3-8, 3-9* and *3-10* below.

Monitoring Station	Action	Level (µg /m ³)	Limit Level (µg/m ³)		
Monitoring Station	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
ASR-1	331	181	500	260	
ASR-2	316	165	500	260	
ASR-3	307	160	500	260	

Table 3-8Action and Limit Levels for Air Quality Monitoring



Table 3-9Action and Limit Levels for Construction Noise

Monitoring Location	Action Level Limit Level in dB(A)			
	Time Period: 0700-1900 hours on normal weekdays			
CN-1,CN-2, CN-3, CN-4	When one or more documented complaints are received	75 dB(A)		

Note: * Reduces to 70 dB(A) for schools and 65 dB(A) during the school examination periods.

Table 3-10 Action and Limit Levels for Water Quality

Description	Performance	Monitoring Location					
Parameter	criteria	M1	M2	M3	M4		
DO (mg/L)	Action Level	3.03	4.99	4.58	3.62		
	Limit Level	2.97	4.90	4.49	3.52		
Turbidity (NTU)	Action Level	7.1	39.7	5.6	5.4		
	Limit Level	7.6	42.2	5.9	5.9		
SS (mg/L)	Action Level	8.5	29.0	9.3	4.8		
	Limit Level	10.1	31.0	9.5	5.0		

Notes:

For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits
For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher

than the limits.

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



4. AIR QUALITY

4.1 MONITORING RESULTS

- 4.1.1 In the Reporting Month, air quality monitoring was performed at all designated locations. Impact monitoring schedule provided to all relevant parties was shown in *Appendix G*.
- 4.1.2 In this Reporting Month, there were 6 sessions of 24-hour TSP and 18 sessions of 1-hour TSP undertaken at each designated station for air quality monitoring. The air quality monitoring results are summarized in *Tables 4-1* to 4-3. The database of 24-hour TSP is shown in *Appendix H* and the graphical plots of monitoring result are shown in *Appendix I*.

Table 4-1 S	Summary of Air (Duality Monitoring	Results at ASR-1 und	ler Contract 1
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	24-hour	<u> </u>	1-hour TSP (µg/m ³)				
Date	TSP (µg/m ³)	Date	Start Time	1 st hour measured	2 nd hour measured	3 rd hour measured	
1-Sep-20	47	2-Sep-20	13:29	109	114	122	
7-Sep-20	24	8-Sep-20	13:02	46	49	55	
12-Sep-20	24	14-Sep-20	9:37	75	66	67	
18-Sep-20	20	19-Sep-20	9:27	50	53	48	
24-Sep-20	31	25-Sep-20	9:25	87	82	80	
29-Sep-20	35	30-Sep-20	9:04	72	75	68	
Average	30	Average		73			
(Range)	(20 - 47)	(Rang	(Range)		(46 – 122)		

Table 4-2	Summary of Air Quality Monitoring Results at ASR-2 under Contract 2
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	24-hour		(g/m ³)			
Date	TSP (µg/m ³)	Date	Start Time	1 st hour measured	2 nd hour measured	3 rd hour measured
1-Sep-20	37	2-Sep-20	9:16	89	92	96
7-Sep-20	15	8-Sep-20	9:22	46	50	42
12-Sep-20	22	14-Sep-20	9:54	60	58	59
18-Sep-20	15	19-Sep-20	9:39	48	50	49
24-Sep-20	13	25-Sep-20	9:33	77	81	83
29-Sep-20	13	30-Sep-20	9:40	66	70	62
Average	19	Average		65		
(Range)	(13 - 37)	(Rang	ge)		(42 - 96)	

Table 4-3	Summary of Air Quality Monitoring Results at ASR-3a under Contract 2
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	24-hour		g/m ³)			
Date	TSP (µg/m ³)	Date	Start Time	1 st hour measured	2 nd hour measured	3 rd hour measured
1-Sep-20	39	2-Sep-20	9:32	85	88	83
7-Sep-20	35	8-Sep-20	9:36	43	46	38
12-Sep-20	25	14-Sep-20	10:26	47	53	50
18-Sep-20	22	19-Sep-20	9:57	45	48	44
24-Sep-20	15	25-Sep-20	10:48	71	77	75
29-Sep-20	47	30-Sep-20	9:14	63	67	60
Average (Range)	31 (15 - 47)	Average (Range)		60 (38 - 88)		

4.2 AIR MONITORING EXCEEDANCE

4.2.1 As shown in *Tables 4-1 to 4-3*, the monitoring results of 24-hour and 1-hour TSP monitoring in the Reporting Month were below the Action/ Limit Level. No Notification of Exceedance (NOE) of air quality monitoring criteria was issued and therefore corrective action was not required. The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5. CONSTRUCTION NOISE

5.1 MONITORING RESULTS

- 5.1.1 In the Reporting Month, noise monitoring was performed at all designated locations. Impact monitoring schedule provided to all relevant parties was shown in *Appendix G*.
- 5.1.2 In this Reporting Month, 5 sessions of noise monitoring were undertaken at each designated noise monitoring location. The sound level were set in a free field situation for CN1, CN2 and CN3 and therefore a façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines. The monitoring result of noise monitoring is show in *Tables 5-1 and 5-2* and the graphical plots are shown in *Appendix I*.

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

Construction Noise Level (L _{eq30min}), dB(A)								
Date	Start Time	Start TimeCN1(*)Start TimeCN2(*)						
2-Sep-20	11:21	69	10:44	67				
8-Sep-20	13:04	73	13:41	67				
14-Sep-20	14:09	64	13:28	67				
25-Sep-20	9:28	64	10:13	68				
30-Sep-20	15:25	71	14:48	66				
Limit Level		75 dB(A)						

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

Table 5-2	Summary of Construction Noise Monitoring Results under Contract 2
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Construction Noise Level (L _{eq30min}), dB(A)					
Date	Start Time	CN3 ^(*)	Start Time	CN4	
2-Sep-20	10:03	60	9:26	57	
8-Sep-20	14:21	58	14:58	61	
14-Sep-20	11:36	60	10:41	61	
25-Sep-20	10:52	60	11:28	60	
30-Sep-20	10:25	59	11:01	59	
Limit Level	75 dB(A)				

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

5.1.3 Prior and after noise monitoring, the accuracy of the sound level meter has been checked by an acoustic calibrator to ensure the measurement within acceptance range of ± 0.5 dB. Moreover, wind speed checked by portable wind speed meter has been performed before noise monitoring. No noise measurement was performed in fog, rain, wind with a steady speed exceeding 5 m s⁻¹ or wind with gusts exceeding 10 m s⁻¹.

5.2 NOISE MONITORING EXCEEDANCE

5.2.1 As shown in *Tables 5-1 and 5-2*, no Limit Level exceedance for noise monitoring exceedance was recorded in the Reporting Month. Moreover, no noise complaint (which triggered Action Level) was received. No Notification of Exceedance (NOE) of construction noise criterion was issued and no corrective action was therefore required.



6. WATER QUALITY

6.1 MONITORING RESULTS

- 6.1.1 In the Reporting Month, water quality monitoring was performed at all designated locations. Impact monitoring schedule provided to all relevant parties was shown in *Appendix G*.
- 6.1.2 In the Reporting Month, a total of 13 monitoring days were carried out for water quality impact monitoring. The monitoring result of key parameters including Dissolved Oxygen, Turbidity and Suspended Solids are summarized in *Tables 6-1* and 6-2. Detailed monitoring results including in-situ measurements and laboratory analysis data are shown in *Appendix H* and graphical plots for monitoring result are shown in *Appendix I*.

	Parameters				
Date	DO (Averaged) (mg/L)	Turbidity (Averaged) (NTU)	Suspended Solids (Averaged) (mg/L)		
2-Sep-20	6.44	5.1	6.0		
4-Sep-20	7.12	5.2	6.5		
7-Sep-20	5.94	3.5	3.5		
9-Sep-20	6.12	3.4	3.0		
11-Sep-20	6.42	3.0	2.5		
14-Sep-20	6.43	3.6	3.0		
16-Sep-20	5.07	5.2	5.5		
18-Sep-20	5.71	5.5	9.0		
21-Sep-20	6.09	3.7	4.5		
23-Sep-20	5.40	5.0	5.5		
25-Sep-20	5.53	5.0	5.5		
28-Sep-20	6.13	4.8	6.0		
30-Sep-20	7.26	5.2	3.0		

 Table 6-1
 Summary of Water Quality Monitoring Results – M3 under Contract 1

Table 6-2	Summary of Water Quality Monitoring Results (M1, M2 and M4) under Contract
	2

	Parameters								
Date DO (Average (mg/L)		d) Turbidity (Averaged) (NTU)			Suspended Solids (Averaged) (mg/L)				
	M1	M2	M4	M1	M2	M4	M1	M2	M4
2-Sep-20	6.48	#	6.85	2.3	#	2.4	4.0	#	<2
4-Sep-20	11.04	#	5.63	2.0	#	2.3	3.0	#	3.5
7-Sep-20	6.61	#	6.21	2.4	#	2.6	3.5	#	4.5
9-Sep-20	6.47	#	6.16	1.8	#	1.7	3.0	#	2.0
11-Sep-20	6.73	#	6.31	1.0	#	1.6	3.0	#	<2
14-Sep-20	6.49	#	6.48	6.6	#	2.8	6.0	#	3.0
16-Sep-20	5.70	6.06	6.09	7.1	361.5	5.0	7.0	180.0	<2
18-Sep-20	5.69	#	6.14	7.6	#	3.8	8.5	#	2.0
21-Sep-20	5.93	#	6.02	6.5	#	3.0	7.5	#	3.0
23-Sep-20	5.79	#	5.99	4.8	#	3.2	7.0	#	2.0
25-Sep-20	6.20	#	5.94	26.6	#	3.9	12.0	#	2.0
28-Sep-20	6.69	#	6.48	21.7	#	2.6	14.5	#	<2
30-Sep-20	7.00	#	7.55	20.5	#	2.9	17.5	#	<2

Remarks: (#) During the water monitoring, the channel of M2 was observed dried up and water sampling was unable be carried out;

Note: Bold and underlined value indicated Limit Level exceedance Italic and bold value indicated Action Level exceedance.

6.1.3 During the Reporting Month, field measurements including temperature of stream water, salinity concentrations, pH values and the stream flow velocity for all monitoring locations are summarized in *Table 6-3*.



	Parameters of field measurements							
Monitoring	pH (Ave	raged)	Salinity (Averaged)		Temp (Averaged)		Water Flow	
Location	(unit) (ppt)		(°C)		(Averaged) (m/s)			
	min	max	min	max	min	max	min	max
M1	7.5	9.5	0.02	0.07	25.5	27.9	< 0.1	< 0.1
M2	8.4	8.4	0.05	0.05	27.4	27.4	< 0.1	< 0.1
M3	7.2	9.3	0.02	0.06	26.2	28.9	< 0.1	< 0.1
M4	7.0	9.0	0.03	0.06	26.3	29.2	< 0.1	< 0.1

Table 6-3	Summary of Field Measurements for Water Quality
	Summary of Field Micusar Chief Sion (Fater Quanty

6.2 WATER QUALITY MONITORING EXCEEDANCE

6.2.1 In this Reporting Month, **2** Action Level and **8** Limit Level water quality exceedances were recorded. The non-compliance of water quality performance is summarized in *Table 6-4*.

Total **Project Related** DO **Turbidity** SS Exceedance exceedance Station Action Limit Action Limit Action Limit Action Limit Action Limit M1 M2 M3 M4

Table 6-4Action and Limit (A/L) Levels Exceedance Record

6.2.2 Notification of Exceedance (NOE) and the investigation for exceedance in the Reporting Month is summarized in *Table 6-5*.

Table 6-5	Summary of Investigation of Wa	ter Quality Exceedance	in the Reporting Month
	Summary of mycsugation of wa	ici Quanty Exceluance	m me keporang mona

Date of	Exceeded	Exceeded		
Exceedance	Location	Parameter		
16 &18 Sep 2020	M1 & M2	Turbidity & SS	According to the Contractor's work programme, there were no construction activities carried out adjacent to locations M1 and M2. The entire Sandy Ridge project was partially commenced at western side of Sandy Ridge and Lin Ma Hang Road, in view of the geographical area of Contract 2, there would be no possible discharge to the monitored channel. According to the weather information from the HKO, there was heavy rainstorm on 15 and 17 September 2020, in which Amber Rainstorm Signal was issued in the afternoon on 15 September 2020. Under the impact of rainstorm, the water quality of the watercourse was deteriorated by the stirred up sediment and runoff from the surrounding environment. Based on the above investigation, it was concluded that the exceedances were related to the impact from rainstorm and not caused by the works under the project.	
25 & 28 Sep 2020	M1	Turbidity & SS	According to the Contractor's work programme, there were no construction activities carried out adjacent to locations M1. According to the site photo taken by the monitoring team on 25 and 28 September. It was observed that the muddy water was flowing from upstream to M1 and the water quality was turbid. However, there was no construction site under the project at upstream. Based on the above investigation, it was concluded that the exceedance was not caused by the work under the project.	
30 Sep 2020	M1	Turbidity & SS	According to the Contractor's work programme, there were no construction activities carried out adjacent to locations M1. According to the weather information from	



2020. Under the impact of rainstorm, the water quality the watercourse was deteriorated by the stirred sediment and runoff from the surrounding environme However, there was no construction site under the proj at upstream. Based on the above investigation, it w concluded that the exceedance was not caused by work under the project.
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7. ECOLOGY MONITORING

7.1 REQUIREMENT

- 7.1.1 According to approved EIA report (AEIAR-198/2016), habitat types within project boundary comprise of watercourse, grassland, upland grassland, plantation, woodland and developed area. Natural habitats were of moderate ecological value in terms of species diversity, species rarity, species abundance, ecological linkage as well as nursery. Moreover, 0.3ha of wet woodland on the northern side of Sandy Ridge was deemed habitat with high ecological value. Four types of habitats were regarded as ecologically sensitive habitats, namely wet woodland, watercourses, upland grassland and woodland. Considering human disturbance in upcoming construction and operation phases, ecologically sensitive habitats shall be monitored in accordance with EM&A Manual.
- 7.1.2 The objective of ecologically sensitive habitats monitoring is to evaluate the effectiveness of measures to minimize impacts on concerned habitats from disturbance and pollution. In order to monitor the effectiveness of the measures to the minimize impact on ecologically sensitive habitats from disturbance and pollution, monthly monitoring during construction and operation phases is required as specified in EM&A Manual. Standard faunal transect and sampling surveys cover both wetland habitats (*wet woodland and watercourse*) and non-wetland habitats (*upland grassland and woodland*).

7.2 METHODOLOGY

7.2.1 Wetland habitats include wet woodland and watercourses. Monitoring surveys using standardized quantitative methodology will conduct at fixed points. For seasonal watercourse, the survey will be conducted whenever the habitat appears. Measures to respond to decreases in numbers of aquatic fauna using the wetland habitats and Action/Limit levels to trigger these measures are detailed in *Table 7-1*.

Action Level Response		Limit Level	Response					
Reduction in	Investigate cause and if cause identified as related to the project instigate remedial action to remove	Reduction in taxa diversity by	Investigate cause and if cause identified as related to the project instigate remedial action.					
	or reduce source of disturbance.							

 Table 7-1
 Action and Limit Levels for Wet Woodland Habitats Monitoring

Remarks: Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna

7.2.2 Non-wetland habitats consist of upland grassland and woodland. Monthly quantitative surveys of non-aquatic fauna will be conducted using standard route transect counts. Measures to respond to decreases in numbers of non-aquatic fauna using the non-wetland habitats and Action/Limit levels to trigger these measures are detailed in *Table 7-2*.

 Table 7-2
 Action and Limit Levels for Non-Wet Woodland Habitats Monitoring

Action Level	Response	Limit Level	Response
Reduction in	Investigate cause and if	Reduction in	Investigate cause and if cause
species diversity	cause identified as related	species diversity	identified as related to the
by 30%	to the project instigate	by 50%	project instigate remedial
	remedial action to remove		action.
	or reduce source of		
	disturbance.		

Remarks: Action and Limit Levels and Responses to Evidence of Declines in Non-Aquatic Fauna

7.2.3 The ecological survey includes all taxa being investigated in accordance with EIA report. Schedule of faunal surveys in each year during construction phase is presented in *Table 7-3*.

Table 7-3Schedule of Faunal Surveys in each year During Construction Phase

	, en eu a			ui (Cjb	in cuci	i jeur i	2 ar ing	Combe	uction	I I IIGOC		
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mammals												
Birds (day)												\checkmark



Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Birds (night)								\checkmark	\checkmark			
Herpetofauna												
Dragonflies								\checkmark	\checkmark			
Butterflies												
Aquatic fauna								\checkmark	\checkmark			

Mammal Survey

7.2.4 Mammal surveys will be conducted along the proposed transects (shown in Appendix D of the survey report) during both daytime and night time periods. Along with direct observations, other field signs, such as scats and tracks, will be searched and recorded if present.

<u>Bird Survey</u>

7.2.5 Bird surveys will be conducted along the transects (shown in Appendix D of the survey report) during the surveys, species and their vocalizing individuals recorded will be enumerated and recorded according to the habitat(s) they are utilizing.

Herpetofauna Survey

7.2.6 Reptile and amphibian surveys will be conducted along transects (shown in Appendix D of the survey report) during surveys careful searches of appropriate microhabitats and refugia for reptiles and their vocalizing individuals will be undertaken and all reptiles observed will be identified and counted.

Dragonfly and Butterfly Survey

7.2.7 Dragonfly and Butterfly surveys will be conducted along transects (shown in Appendix D of the survey report) during surveys all dragonflies and Butterflies seen will be identified and counted as accurately as possible.

<u>Aquatic Fauna Survey</u>

- 7.2.8 Freshwater fishes and macro-invertebrates will be recorded by direct observation. All species trapped/recorded will be enumerated and identified (to the lowest taxonomic level possible), and the species of conservation importance photographed.
- 7.2.9 After each ecological monitoring survey, a monthly report of the survey result and data collected will be provided with reference to EM&A Manual. An annual analysis of data will be carried out in order to study if there is any significant reduction in taxa diversity and abundance.

7.3 ECOLOGICAL MONITORING SURVEY FINDINGS (CONTRACT 1)

7.3.1 In the Reporting Month, ecological monitoring was undertaken on 3^{rd} September 2020 at work area of Contract 1. A sunny day. The day and night survey covered wetland and non-wetland areas. The survey was conducted by transect and at fixed points. All species seen will be identified and counted as accurately as possible. Results of the monitoring survey are presented below:

Monitoring Result for Contract 1

<u>Mammal</u>

7.3.2 There was one mammal recorded in the monitoring area.

Birds

7.3.3 There were total of 19 bird individuals from 11 species recorded in the monitoring area. Two species of conservation interests were recorded in the monitoring area: Centropus sinensis, Greater Coucal (褐翅鴉鵑), Corvus torquatus, Collared Crow (白頸鴉).

<u>Herpetofauna</u>

7.3.4 There was no reptile recorded in the monitoring area. There was two amphibian species recorded in the monitoring area.



<u>Butterfly</u>

7.3.5 There were a total of 7 butterfly individuals from 7 species recorded in the monitoring area.

<u>Dragonfly</u>

7.3.6 There were a total of 35 odonate individual from 4 species recorded in the monitoring area.

Aquatic Fauna Survey (Freshwater communities)

- 7.3.7 There was one freshwater community recorded in the monitoring area. One species of conservation interests were recorded in the monitoring area: Somanniathelphusa zanklon, (鐮刀束腰蟹)
- 7.3.8 The summaries of faunal survey result are shown in *Tables 7-4 and 7-5*.

Table 7-4Result of Faunal Survey under Contract 1

Scientific Name	Common / Engineer Name	Chinese Name	Conservation Status	Non- wetland	Wetland
Mammal Survey					
Avifauna Survey					
Centropus sinensis	Greater Coucal	褐翅鴉鵑	Class 2 Protected Animal of China; China Red Data Book Status: (Vulnerable)		1
Apus nipalensis	House Swift	小白腰雨燕		4	
Lanius schach	Long-tailed Shrike	棕背伯勞			1
Corvus torquatus	Collared Crow	白頸鴉	Fellowes et al. (2002): LC; IUCN Red List Status: NT	1	
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯			3
Pycnonotus	Sooty-headed	白喉紅臀鵯			2
aurigaster	Bulbul	,			2
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯			2
Prinia inornata	Plain Prinia	純色鷦鶯			1
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯			1
Gracupica nigricollis	Black-collared Starling	黑領椋鳥		2	
Myophonus caeruleus	Blue Whistling Thrush	紫嘯鶇		1	
Reptile Survey					
Amphibian Survey					
Polypedates megacephalus	Brown Tree Frog	斑腿泛樹蛙			+
Kaloula pulchra	Asiatic Painted Frog	花狹口蛙			+
Butterfly Survey					
Matapa aria	Common Redeye	瑪弄蝶			1
Parnara ganga	Rare Swift	曲紋稻弄蝶		1	
Pelopidas assamensis	Great Swift	印度穀弄蝶			1
Polytremis lubricans	Contiguous Swift	黃紋孔弄蝶			1
Spindasis syama	Club Silverline	豆粒銀線灰 蝶			1
Hestina assimilis	Red Ring Skirt	黑脈蛺蝶		1	
Mycalesis mineus	Dark Brand Bush Brown	小眉眼蝶			1



Scientific Name	Common / Engineer Name	Chinese Name	Conservation Status	Non- wetland	Wetland
Odonate Survey					
Neurothemis tullia	Pied Percher	截斑脈蜻			1
Orthetrum sabina	Green Skimmer	狹腹灰蜻		2	1
Pantala flavescens	Wandering Glider	黄蜻		20	10
Urothemis signata	Scarlet Basker	赤斑曲鈎脈 蜻	Fellowes et al. (2002): LC		1

+: Species appeared but uncountable.

Table 7-5 Result of Freshwater Communities Survey under Contract 1

		Chinese		3- Se	ep-20
Scientific Name	Common Name	Name	Conservation Status	Non- wetland	Wetland
Somanniathelphusa zanklon	-	鐮刀束腰蟹	Fellowes et al. (2002): GC		2

7.4 ECOLOGICAL MONITORING SURVEY FINDINGS (CONTRACT 2)

7.4.1 In the Reporting Month, ecological monitoring was undertaken on 3^{rd} September 2020 at work area of Contract 2. A sunny day. The day and night survey covered wetland and non-wetland areas. The survey was conducted by transect and at fixed point. All species seen will be identified and counted as accurately as possible. Results of the monitoring survey are presented below:

Monitoring Result for Contract 2

<u>Mammal</u>

7.4.2 There was no mammal recorded in the monitoring area

Birds

7.4.3 There were a total of 18 bird individuals from 7 species recorded in the monitoring area.

<u>Herpetofauna</u>

7.4.4 There was no reptile and amphibian recorded in the monitoring area.

<u>Butterfly</u>

7.4.5 There were total 9 butterfly individuals from 7 species recorded in the monitoring area.

<u>Dragonfly</u>

7.4.6 There were total 7 odonate individuals from 3 species recorded in the monitoring area.

Aquatic Fauna Survey (Freshwater communities)

7.4.7 There were two species of freshwater fish were recorded in the monitoring area.

7.4.8 The summaries of faunal survey result are shown in *Tables 7-6* and 7-7.

Table 7-6Result of Faunal Survey under Contract 2

Scientific Name	Common / Engineer Name	Chinese Name	Conservation Status	Non- wetland	Wetland
Mammal Survey					
Avifauna Survey					
Spilopelia chinensis	Spotted Dove	珠頸斑鳩			2
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯			2
Hirundo rustica	Barn Swallow	家燕		3	2
Prinia flaviventris	Yellow-bellied	黃腹鷦鶯			2



Scientific Name	Common / Engineer Name	Chinese Name	Conservation Status	Non- wetland	Wetland
	Prinia				
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯			1
Garrulax perspicillatus	Masked Laughingthrush	黑臉噪鶥		4	
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		2	
Reptile Survey					
Amphibian Survey					
Butterfly Survey					
Notocrypta curvifascia	Restricted Demon	曲紋袖弄蝶			1
Faunis eumeus	Large Faun	串珠環蝶		2	
Mycalesis mineus	Dark Brand Bush Brown	小眉眼蝶		2	
Papilio polytes	Common Mormon	玉帶鳳蝶		1	
Papilio protenor	Spangle	藍鳳蝶		1	
Catopsilia pomona	Lemon Emigrant	遷粉蝶		1	
Delias pasithoe	Red-base Jezebel, Common Black Jezebel	報喜斑粉蝶		1	
Odonate Survey					
Brachydiplax chalybea	Blue Dasher	藍額疏脈蜻			1
Copera marginipes	Yellow Featherlegs	黃狹扇蟌			2
Pantala flavescens	Wandering Glider	黄蜻			4

Scientific Name	Common Name	Chinese Name	Conservation Status	3- Sep-20
Gambusia affinis	Mosquito fish	食蚊魚		+
Puntius semifasciolatus	Chinese Barb	五線無鬚鰓		+

+: Species appeared but uncountable.

- 7.4.9 The detailed survey reports of Contract 1 and Contract 2 are attached in *Appendix K*.
- 7.4.10 The tentative ecology inspection and monitoring in the next Reporting Month (September 2020) is scheduled on **3rd October 2020**.

7.5 MEASURE FOR PROTECTION OF NESTING BIRD

- 7.5.1 Pursuant to FEP-01/534/2017/A condition 2.19 and EP-534/2017/A condition 2.20, precautionary checks for the presence of nesting birds shall be carried out in the breeding season (February to July) before vegetation clearance.
- 7.5.2 In the Reporting period, there was no precautionary check for the presence of nesting birds carried out for Contract 1 and Contract 2 outside the breeding season.



8. LANDSCAPE AND VISUAL

8.1 REQUIREMENT

- 8.1.1 The EIA has recommended EM&A for landscape and visual resources to be undertaken during the design, construction and operational stages of the project. The design, implementation and maintenance of landscape mitigation measures is a key aspect of this and should be checked to ensure that they are fully realized and that potential conflicts between the proposed landscape measures and any other project works let its are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, implementation of the mitigation measures recommended by the EIA will be monitored through the site audit programme.
- 8.1.2 A number of mitigation measures to ameliorate the landscape and visual impacts of the Project implementation is summarized in the EMIS of *Appendix 13.1* of the EIA Report.
- 8.1.3 The landscape and visual mitigation measures proposed should be incorporated in the landscape and engineering design. Mitigation measures to be implemented during construction should be adopted from the start of construction and be in place throughout the entire construction period. Mitigation measures to be implemented during operation should be integrated into the detailed design and built as part of the construction works so that they are in place on commissioning of the Project. Tree transplantation and compensatory planting should be carried out as early as possible in the Project with transplantation carried out prior to construction starting in any particular area.
- 8.1.4 During construction phase, Landscape & Visual Monitoring of the contractor's operations should be conducted monthly and reported by ET, and countersigned by IEC.

8.2 FINDINGS / DEFICIENCIES DURING SITE INSPECTION IN THE REPORTING MONTH

8.2.1 In the Reporting Month, landscape & Visual inspection was carried out by the Registered Landscape Architect (RLA) for works area of Contract 1 and Contract 2 on 24th September 2020. The findings / reminders recorded during the inspection are presented in *Tables 8-1 and 8-2*.

Table o-1	Lanuscape & visual hispection Finding for C	John uet 1
Date	Findings and Reminder	Follow-Up Status
24 th September 2020	1. Some tree protection zones were found damaged or missing.	• Maintenance for tree protection zone is undertaken by the Contractor continuously.
	2. The Contractor was reminded to set up TPZ of proper size and with appropriate material around retain trees according to approved method statement.	• Reminder was noted by the Contractor
	3. The Contractor was reminded to prevent the construction material pile with TPZ and ensure no works is allowed within the TPZ.	• Reminder was noted by the Contractor
	4. Transplanted trees T2465, T2468 and T2928 were in fair health condition with normal foliage color and density. Contractor is reminded to provide proper maintenance according to approved method statement.	• Reminder was noted by the Contractor.

Table 8-1Landscape & Visual Inspection Finding for Contract 1

Table 8-2Landscape & Visual Inspection Finding for Contract 2

Date	Findings and Reminder	Follow-Up Status
24^{th}	1. The Contractor was reminded to set up	• Reminder was noted by the
September	TPZ of proper size and with appropriate	Contractor.
2020	material around retain trees according to	
	approved method statement. Contractor	



Date	Findings and Reminder	Follow-Up Status
	should prevent any construction material pile within TPZ and ensure no works is allowed within the TPZ.	

8.2.2 Inspection checklist of Landscape & Visual signed by RLA is attached in *Appendix L*.



9. WASTE MANAGEMENT

9.1 GENERAL WASTE MANAGEMENT

9.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time in accordance with the Waste Management Plan (WMP).

9.2 **RECORDS OF WASTE QUANTITIES**

- 9.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
 - Excavated Soil.
- 9.2.2 The quantities of waste for disposal in this Reporting Month are summarized in *Table 9-1* and *9-2* and the Monthly Summary Waste Flow Table is shown in *Appendix M*. Whenever possible, materials were reused on-site as far as practicable.

	Contract 1		Contract 2	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Total generated C&D Materials (Inert) ('000m ³)	3.978		806.780 (#)	
Reused in this Contract (Inert) ('000m ³)	1.980	Within Contract area	0	
Reused in other Projects (Inert) ('000m ³)	0		0	
Disposal as Public Fill (Inert) ('000m ³)	1.998	Tuen Mun Area 38	806.780 (#)	Tuen Mun Area 38

Table 9-1Summary of Quantities of Inert C&D Materials

Remark: the unit is '000kg

Table 9-2Summary of Quantities of C&D Wastes

	Contract 1		Contract 2	
Type of Waste	Quantity	Disposal Location	Quantity	Disposal Location
Recycled Metal ('000kg)	0		0	
Recycled Paper / Cardboard Packing ('000kg)	0		0	
Recycled Plastic ('000kg)	0		0	
Chemical Wastes ('000kg)	0		0	
General Refuses ('000m ³)	0.037	NENT Landfill	10.080 (#)	NENT Landfill

Remark: the unit is '000kg

9.2.3 Since canteen and/or kitchen are not allowed setting on the Project site, no domestic wastewater was generated from the Project.



10. SITE INSPECTION

10.1 REQUIREMENT

10.1.1 According to the approved EM&A Manual, environmental site inspection should be led by RE and attended by the Contractor and ET at least once per week. Regular environmental site inspections shall be carried out to assess the environmental performance.

10.2 FINDINGS / DEFICIENCIES DURING SITE INSPECTION IN THE REPORTING MONTH Contract 1

- 10.2.1 In the Reporting Month, joint site inspections for Contract 1 to evaluate the site environmental performance were carried out by the RE, ET and the Contractor on 3^{rd} , 10^{th} , 17^{th} , 24^{th} and 30^{th} September 2020 and IEC attended joint site inspection on 17^{th} September 2020. No non-compliance was noted.
- 10.2.2 The findings / deficiencies that observed during the weekly site inspection are listed in *Table 10-1*.

Table 10-1Site Observations for the Works of Contract 1

Date	Findings / Deficiencies	Follow-Up Status
3 rd September 2020	• The Contractor was reminded to remove stagnant water after rainstorm. (Noise Barrier)	• Reminder only
10 th September 2020	 Chemical container should be placed in drip tray. (Noise Barrier) The Contractor was reminded to remove sediment in the drip tray of generator. (PTA area) 	 The chemical container was placed in drip tray. Reminder only
17 th September 2020	 NRMM and NEL label should be provided on the air compressor. (CS15) The hole in drip tray should be sealed to prevent chemical leakage. (CS15) Suspected oil stain should be clean and disposed as chemical waste. (CS15) The Contractor was reminded to maintain good housekeeping on site. (General) 	 The air compressor was removed. The hole in drip tray was sealed. Suspected oil stain was clean. Reminder only
24 th September 2020	• The Contractor was reminded to dispose wastes regularly.	Reminder only
30 th September 2020	 NRMM label should be provide for any generator using on site. The Contractor was reminded to remove stagnant water after rainstorm. 	 NRMM label was found not required for the generator after check its specification Reminder only.

Contract 2

- 10.2.3 In the Reporting Month, joint site inspections for Contract 2 to evaluate the site environmental performance carried out by the RE, ET and the Contractor was on 3^{rd} , 10^{th} , 17^{th} , 24^{th} and 30^{th} September 2020 and IEC attended joint site inspection on 17^{th} September 2020. No non-compliance was noted.
- 10.2.4 The findings / deficiencies that observed during the weekly site inspection are listed in *Table 10-2*.



Date	Findings / Deficiencies	Follow-Up Status
3 rd September 2020	• Chemical container should be placed in dri tray to prevent land contamination. (C225)	• Chemical container was removed.
	• The Contractor was reminded to maintain good housekeeping on site. (C225)	• Reminder only
	 The Contractor was reminded to remove stagnant water in the tray. (C225) 	• Reminder only
10 th September 2020	• The Contractor was reminded to provide proper mitigation measure during soil nailing to reduce dust impact.	• Reminder only.
17 th September 2020	• Suspected oil stain should be check and disposed as chemical waste. (MKTR)	• Suspected oil stain was clean.
	• Chemical containers should be placed in drip tray. (TTA1)	• Chemical containers were removed.
	• The Contractor was reminded to repair or replace the broken water barriers to prevent mosquito breeding.	• Reminder only.
	• The Contractor was reminded to remove stagnant water after rainstorm.	• Reminder only.
24 th September 2020	• The Contractor should provide proper NRMM label for the air compressor at CS20.	• NRMM label with proper color was displayed on the air compressor.
30 th September 2020	• The Contractor was reminded to maintain good housekeeping on site. (RW13 &14)	• Reminder only.

Table 10-2Site Observations for the Works of Contract 2



11. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

11.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

11.1.1 In the Reporting Month, one (1) environmental complaint was received with respect to illegal muddy water discharge from site. Besides, no summons and prosecution under the EM&A Programme was lodged for the project. Investigation for the complaint was undertaken by the ET and presented below.

Complaint received on 8 September 2020

- 11.1.2 On 8 September 2020, EPD received a complaint from DSD regarding suspected illegal discharge from a CEDD's construction site at the upstream leading to the accumulation of silting at DSD's drainage channel at the downstream Nam Hang Stream. The closest construction site to the DSD concerned drainage channel was Contract 2 of Sandy Ridge Project.
- 11.1.3 Joint site inspection by the EPD, RE, IEC, ET and the Contractor was carried out on 10 September 2020 for complaint investigation and the inspected area included construction site of Contract 2 in Sandy Ridge and the adjacent Nam Hang Stream. During the inspection, no muddy water discharge from the suspicious construction site was observed
- 11.1.4 In our investigation, there was no evident of muddy/ turbid discharge from the construction site and water quality mitigation measures implemented in Contract 2 was general in order and no deficiency of water quality impact was observed during weekly site inspection. It is considered that the complaint was no valid to the Contract. However, the Contractor was reminded to fully follow the mitigation measures as recommended in the EM&A Manual as far as practicable to minimize the impact and nuisance to the public.
- 11.1.5 In the Reporting Month, No summons and prosecution was lodged for the Contract. The statistical summary table of the environmental complaint, summons and prosecution are presented in *Tables 11-1*, *11-2* and *11-3*.

Reporting Month		Enviro	nmental Complain	t Statistics
		Frequency	Cumulative	Complaint Nature
1 – 30 September 2020	Contract 1	0	0	NA
1 – 30 September 2020 Contract 2		1	1	Water

Table 11-1 Statistical Summary of Environmental Complaints

Table 11-2 Statistical Summary of Environmental Summons

Reporting Month		Er	vironmental Summons	s Statistics
		Frequency	Cumulative	Complaint Nature
1 – 30 September 2020	Contract 1	0	0	NA
1 - 30 September 2020	Contract 2	0	0	NA

Table 11-3 Statistical Summary of Environmental Prosecution

Reporting Month		Env	vironmental Prosecutio	on Statistics
		Frequency	Cumulative	Complaint Nature
1 – 30 September 2020 C	Contract 1	0	0	NA
1 - 30 September 2020 C	Contract 2	0	0	NA



12. IMPLEMENTATION STATUS OF MITIGATION MEASURES

12.1 GENERAL REQUIREMENTS

- 12.1.1 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 N*.
- 12.1.2 The Works of Contract 1 and Contract 2 under the Project shall be implementing the required environmental mitigation measures according to the approved EM&A Manual subject to the site condition. Environmental mitigation measures implemented in this Reporting Month is summarized in *Table 12-1*.

Issues	Environmental Mitigation Measures
Water	· Provided efficient silt removal facilities to reduce SS level before effluent
Quality	discharge.
	• Provided ditches, earth bunds or sand bag barriers to minimize polluted runoff.
	• Temporary drainage was provided to prevent runoff going through site surface
	and minimize polluted runoff.Provided perimeter cut-off drains at site boundaries to intercept storm runoff from
	• Provided perimeter cut-off drains at site boundaries to intercept storm runoff from crossing the site.
	• Exposed slopes surface were compacted and covered with tarpaulin or similar means.
	Provided portable chemical toilets on site.
Air Quality	Maintain damp / wet surface on access road.
	Maintain low vehicular speed within the works areas.
	• Provided vehicle wheel washing facilities at each construction site exit;
	• Provided water spraying for all active works area.
	• Stockpiles of dusty material were covered with impervious sheeting.
	• Provided workers to clear dusty materials at the vehicle entrance or exit regularly.
	• Stockpile more than 20 bags of cement or dry pulverized fuel ash (PFA) has been
	covered entirely by impervious sheeting or placed in an area sheltered on the top
	and the 3 sides.
Noise	• Restricted operation time of plants from 07:00 to 19:00 on any working day
	except for Public Holiday and Sunday.
	Keep good maintenance of plantsPlaced noisy plants away from residence and school
	 Provided noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used.
Waste and	 Provided on-site sorting prior to disposal
Chemical	 Followed requirements and procedures of the "Trip-ticket System"
Management	 Predicted required quantity of concrete accurately
	• Collected the unused fresh concrete at designated locations in the sites for
	subsequent disposal
General	The site was generally kept tidy and clean.
<u> l</u>	

 Table 12-1
 Environmental Mitigation Measures

12.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 12.2.1 According to the information provided by HCTYJV, the forthcoming construction activities for Contract 1 are listed below:
 - General Site Housekeeping
 - Bulk Excavation
 - Construction of cut slope, installation of soil nailing and construction of surface channel and planter wall.
 - Construction of fill slope and surface channel
 - Construction of pick-up and drop-off point near Man Kam To Road
 - Construction of sewer and storm drain



- Construction of noise barrier
- Construction of watermains
- 12.2.2 According to the information provided by Sang Hing, the forthcoming construction activities for Contract 2 are listed below:
 - Construction of Manhole, gullies, drainage pipe at Lin Ma Hang Road between CH565-675 Southbound & CH1345-1377 Northbound.
 - Man Kam To Road DN800 DI Sewerage Pipe FM4.18-4.19(50m)
 - Reinstatement for Man Kam To Road DN800 DI Sewerage Pipe Trench FM4.18-FM4.21 (120m)
 - Filling works for slope FS18 (Part A1)
 - Drainage Works at Road E CH200-300
 - Retaining Wall 14 construction
 - Soil Nail Works at Lin Ma Hang Road Slope C225 & C231
 - Soil Nail Works at Sandy Ridge Slope CS20
 - Fanling Station Road Covered Walkway

12.3 KEY ISSUES FOR THE COMING MONTH

12.3.1 Key issues to be considered in the coming month for the works of Contract 1 include:

- Implementation of control measures for rainstorm;
- Regular clearance of stagnant water during wet season;
- 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;
- Ensure dust suppression measures are implemented properly;
- Sediment catch-pits and silt removal facilities should be regularly maintained;
- Discharge of site effluent to the nearby wetland is prohibited;
- Nearby wetland prohibited stockpiling and/or disposal of materials;
- Follow-up of improvement on general waste management issues; and
- Implementation of construction noise preventative control measures.
- 12.3.2 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 surface runoff and other pollutants from flowing to local stream and Conservation Area. The implementation of water quality mitigation measures conducted by the Contractors is shown in *Appendix O*.



13. CONCLUSIONS AND RECOMMENTATIONS

13.1 CONCLUSIONS

- 13.1.1 This is the **26th** Monthly EM&A Report presenting the monitoring results and inspection findings for the period of **1st** to **30th** September 2020.
- 13.1.2 No 24-hour or 1-hour TSP monitoring result that triggered the Action or Limit Levels was recorded. No NOEs or the associated corrective action was therefore required.
- 13.1.3 No noise complaint (which is an Action Level exceedance) was received and no construction noise measurement result that exceeded the Limit Level was recorded in this Reporting Month. No NOEs or the associated corrective actions were therefore issued.
- 13.1.4 For water quality monitoring, a total of **2** Action Level and **8** Limit Level exceedances were recorded In the Reporting Period. NOE were issued to relevant parties and the investigation has been conducted by ET. Investigation revealed that the Contractor had implemented water quality mitigation measures and the exceedances were related the rainstorm and not caused by the work under the project.
- 13.1.5 Monthly ecological monitoring for sensitive habitat for area of Contract 1 and Contract 2 were undertaken on 3^{rd} September 2020. No significant reduction in taxa diversity and abundance was observed in the both surveys. Furthermore, as advised by both Contractors, there were no vegetation clearance conducted within the site in the Reporting Month and therefore precautionary check for the presence of nesting birds was not required.
- 13.1.6 Landscape and visual inspection at both Contracts were undertaken by the RLA on 24th September 2020. The Contractor was reminded to prevent the construction material pile within TPZ and ensure no works is allowed within the TPZ.
- 13.1.7 In the Reporting Month, one (1) environmental complaint was received from EPD regarding suspected illegal discharge from a CEDD's construction site at the upstream leading to the accumulation of silting at DSD's drainage channel at the downstream Nam Hang Stream. In our investigation, there was no evident of muddy/ turbid discharge from the construction site and water quality mitigation measures implemented in Contract 2 was general in order and no deficiency of water quality impact was observed during weekly site inspection. It is considered that the complaint was not valid to the Contract. However, the Contractor was reminded to fully follow the mitigation measures as recommended in the EM&A Manual as far as practicable to minimize the impact and nuisance to the public.
- 13.1.8 No notification of summons or prosecution were received and recorded for the project.
- 13.1.9 In the Reporting Month, joint site inspections for Contract 1 to evaluate the site environmental performance were carried out by the RE, ET and the Contractor on 3^{rd} , 10^{th} , 17^{th} , 24^{th} and 30^{th} September 2020 and IEC attended joint site inspection on 17^{th} September 2020. No non-compliance was noted.
- 13.1.10 Joint site inspections for Contract 2 to evaluate the site environmental performance carried out by the RE, ET and the Contractor was on 3rd, 10th, 17th, 24th and 30th September 2020 and IEC attended joint site inspection on 17th September 2020. No non-compliance was noted.

13.2 RECOMMENDATIONS

- 13.2.1 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 surface runoff and other pollutants from flowing to local stream and Conservation Area.
- 13.2.2 Since dry season is approaching, air quality mitigation measures such as wheel wash facilities, watering of haul roads, loose soil construction surface and covering of dusty materials with tarpaulin sheet should be implemented as far as practicable.



- 13.2.3 Construction noise would be a key environmental issue during construction phase of the Project. Noise mitigation measures such as using quiet plants and mobile noise barriers should be implemented in accordance with the EM&A requirement.
- 13.2.4 Since some of the construction site under the Project is located near villages, both Contractors should fully implement air quality mitigation measures to reduce construction dust emission.
- 13.2.5 Furthermore, daily cleaning and weekly tidiness shall be properly performed and maintained. In addition, mosquito control should be performed to prevent mosquito breeding on site.



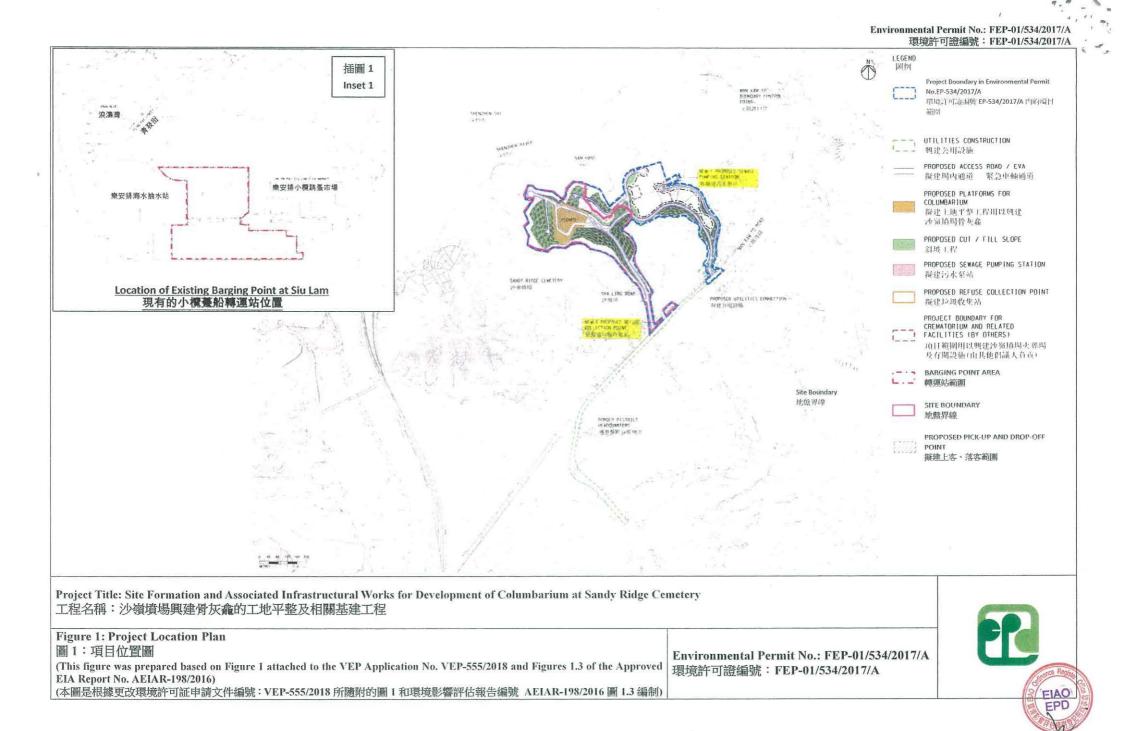
Appendix A

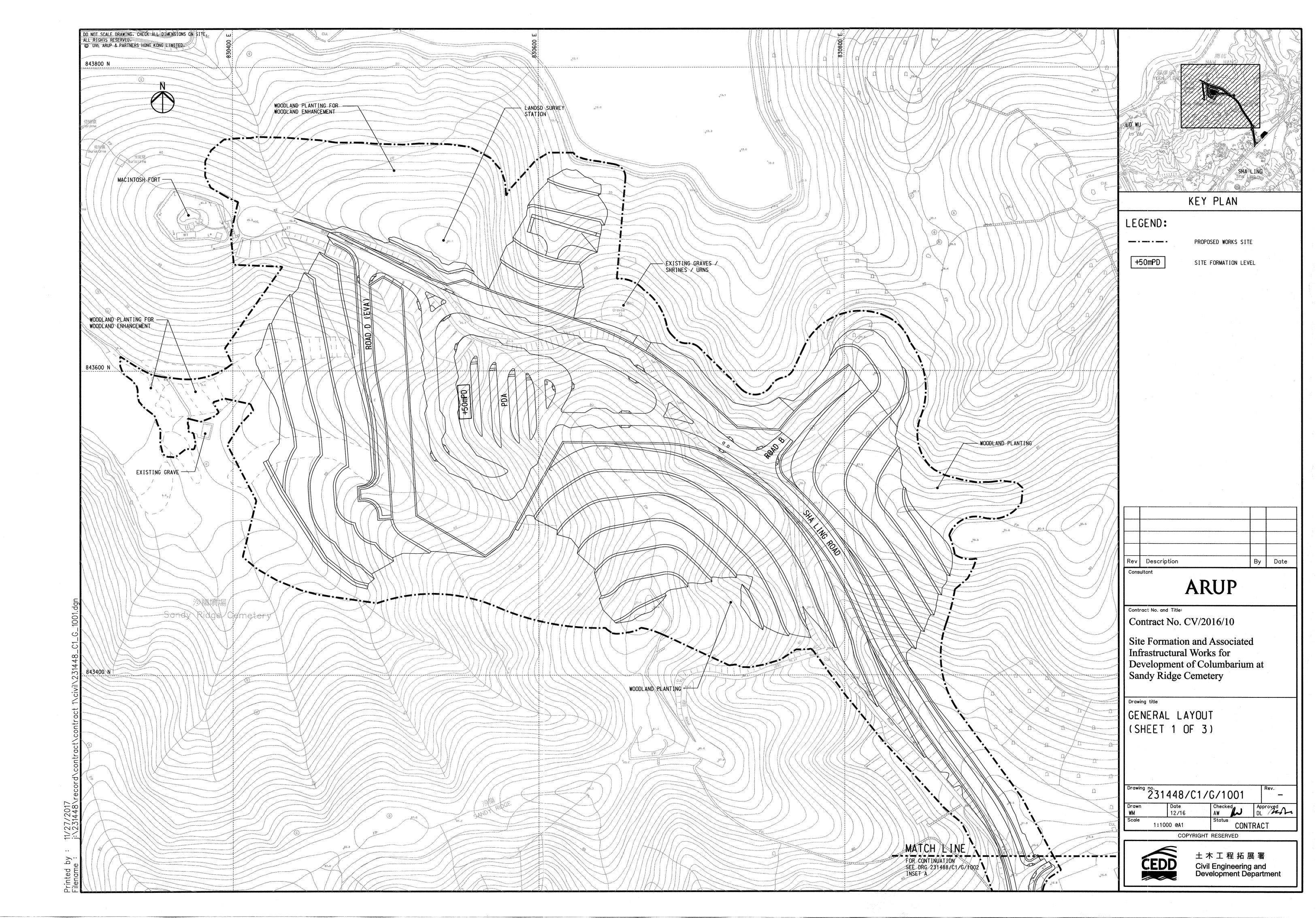
Layout Plan of the Project

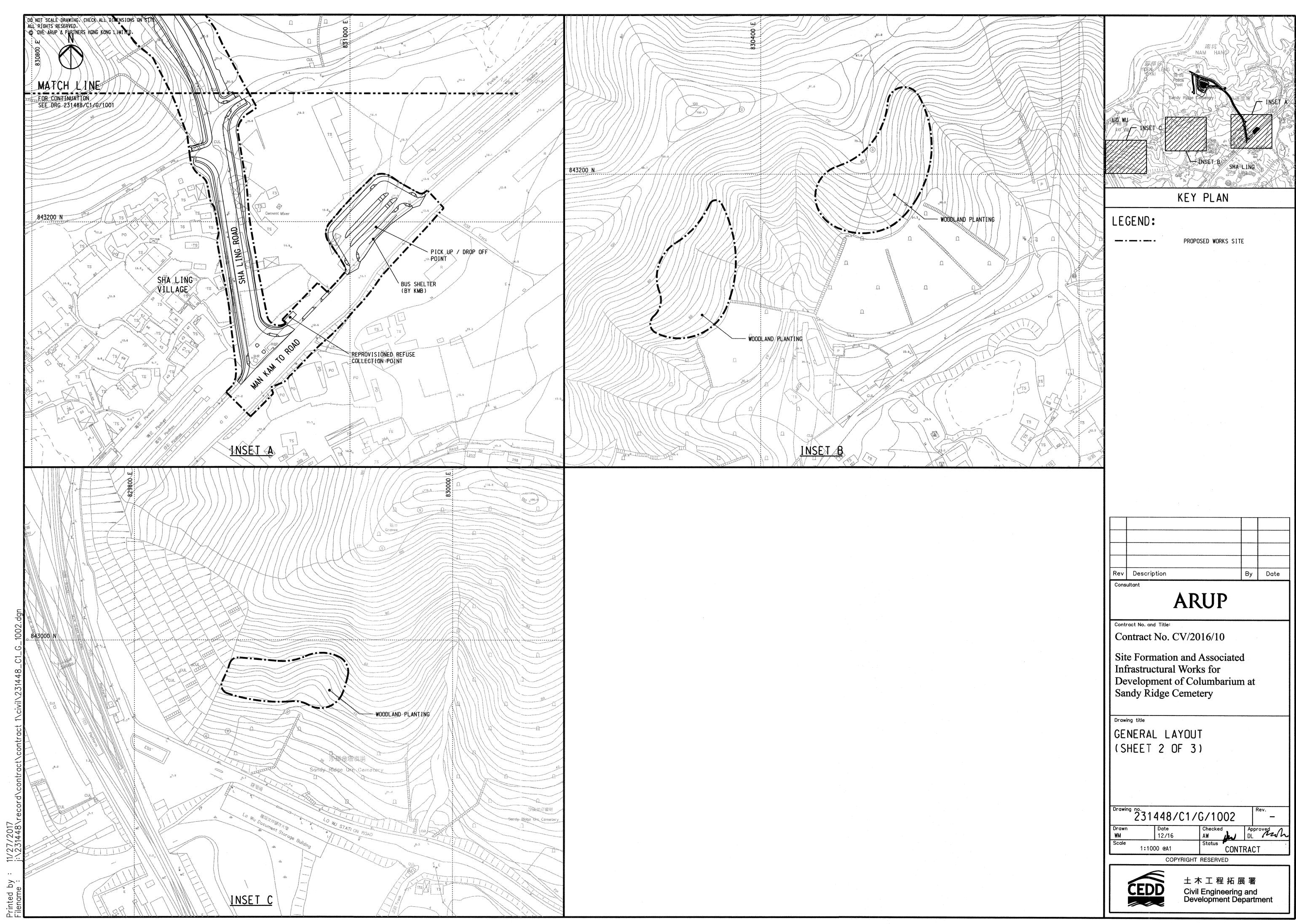
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Layout Plan of Contract CV/2016/10

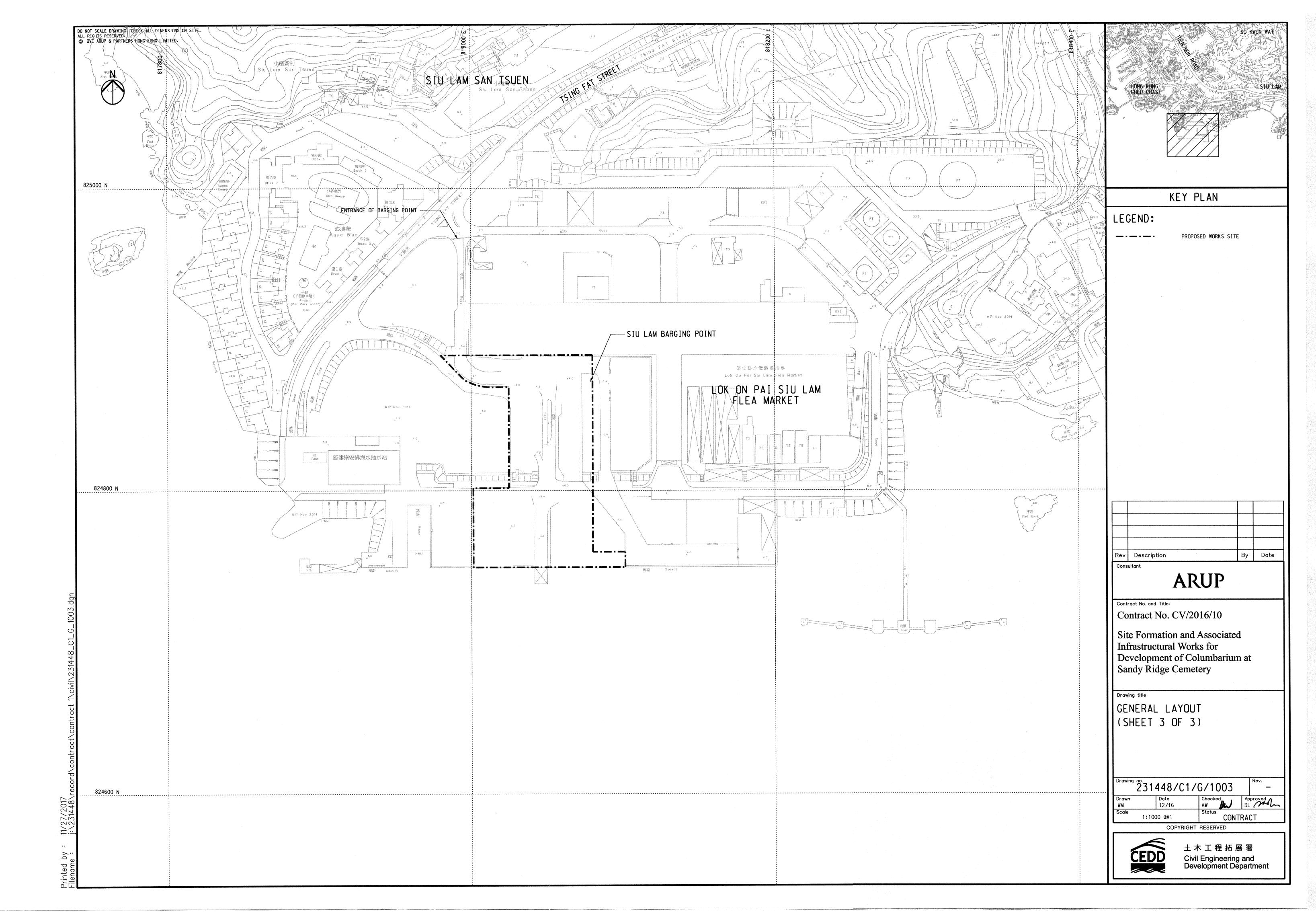






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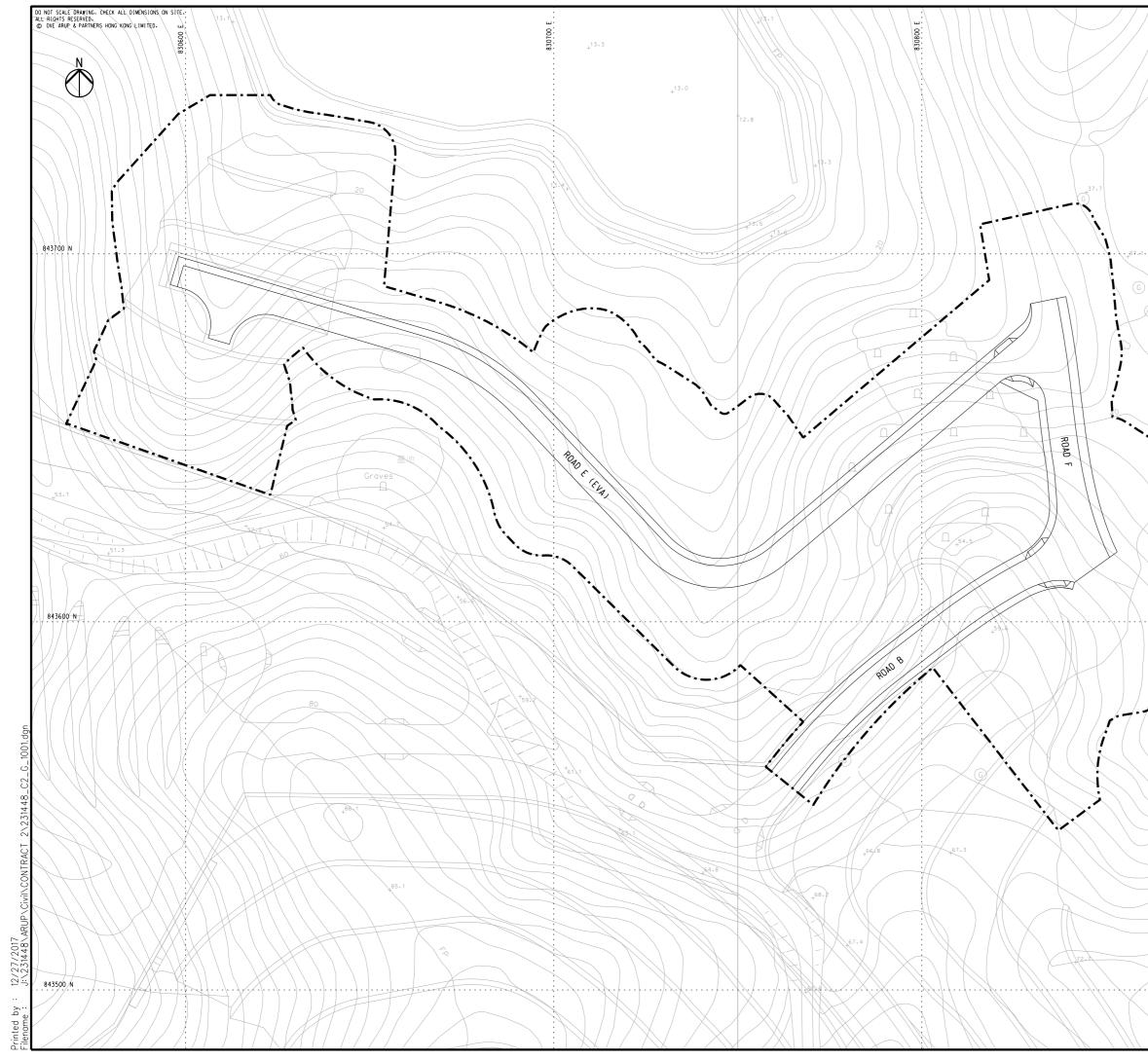
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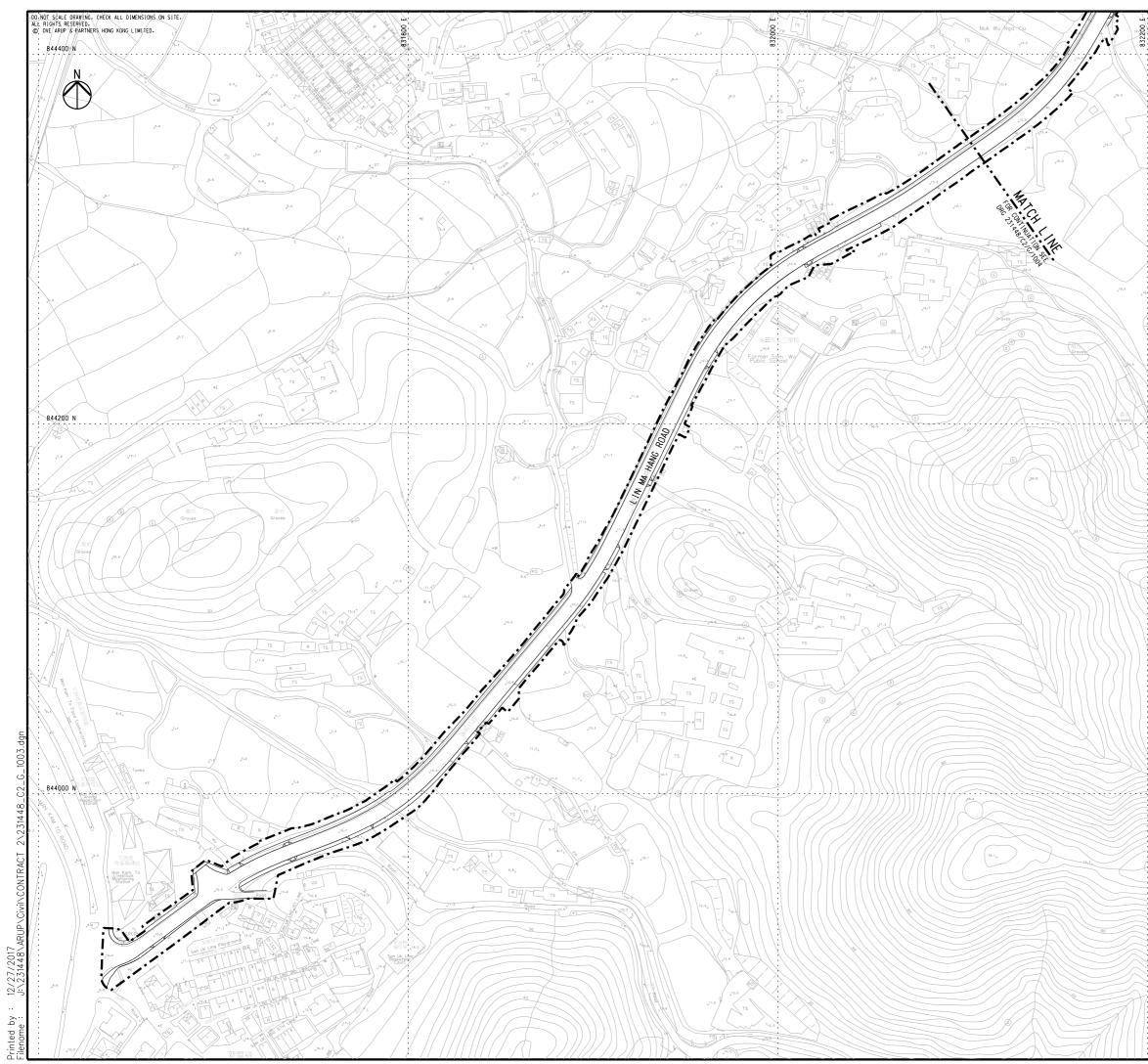
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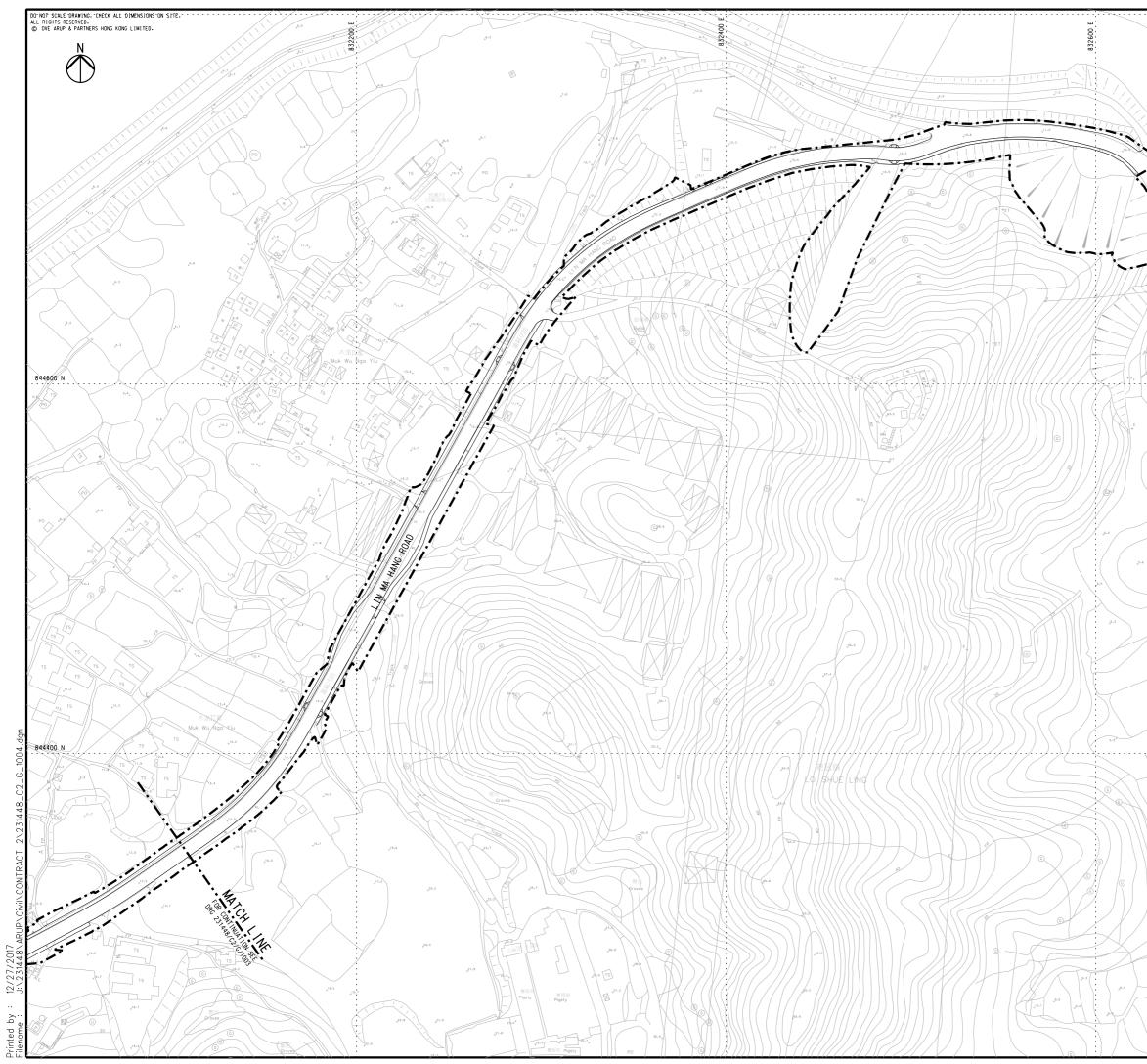


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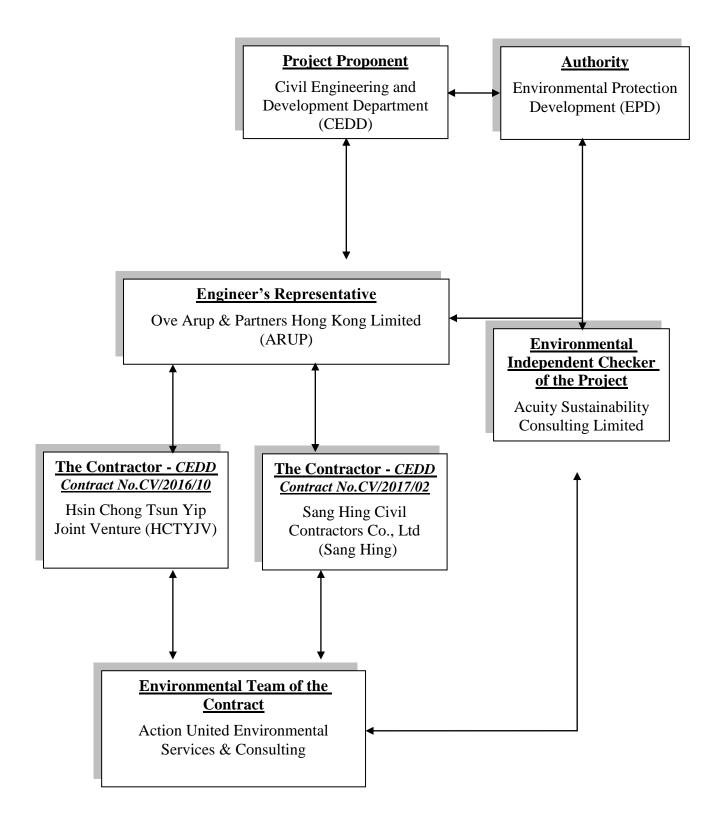


Appendix B

Organization Structure and Contact Details of Relevant Parties



The Contract's Environmental Management Organization





Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Employer	CHOI Wing-hing	2762-5620	2714-0695
ARUP	Engineer's Representative	Steve Tang	6190-1513	2268-3950
ACUITY	Independent Environmental Checker	Ir. Leung CH Jacky	2698-6833	2698-9383
HCTYJV	Project Director	Mr. Kan Kwok Cheung	9495-2408	2633-4691
HCTYJV	Construction Manager	Mr. Keniel Kwong	9863-0020	2633-4691
HCTYJV	Site Agent	Mr. Ho Man To	9507-9634	2633-4691
HCTYJV	Environmental Officer	Mr. Chan Ming Tai	9358-7007	2633-4691
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Mr. Ben Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Ms. Nicola Hon	2959-6059	2959-6079
AUES	Environmental Site Inspector	Mr. Martin Li	2959-6059	2959-6079

Contact Details of Key Personnel for CV/2016/10 (Contract 1)

Legend:

CEDD (Employer) – Civil Engineering and Development Department

ARUP (Engineer) – Ove Arup & Partners Hong Kong Limited

HCTYJV (Main Contractor) – Hsin Chong Tsun Yip Joint Venture

ACUITY (IEC) – Acuity Sustainability Consulting Limited

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



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Employer	CHOI Wing-hing	2762-5620	2714-0695
ARUP	Engineer's Representative	Anthony Lau	6190-1513	2268-3950
ACUITY	Independent Environmental Checker	Ir. Leung CH Jacky	2698-6833	2698-9383
SANG HING	Project Director	Edwin Au	9208-7329	2403-1162
SANG HING	Construction Manager	Raymond Wong	9272-1831	2403-1162
SANG HING	Site Agent	Elvin Lam	6285-0803	2403-1162
SANG HING	Environmental Officer	Chan Ng jhon-keibi	6090-0183	2403-1162
SANG HING	Environmental Supervisor	Kenny Chan	6115-0120	2403-1162
AUES	Environmental Team Leader	Mr. T.W. Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Mr. Ben Tam	2959-6059	2959-6079
AUES	Environmental Consultant	Ms. Nicola Hon	2959-6059	2959-6079
AUES	Environmental Site Inspector	Mr. Martin Li	2959-6059	2959-6079

Contact Details of Key Personnel for CV/2017/02 (Contract 2)

Legend:

CEDD (Employer) – Civil Engineering and Development Department

ARUP (Engineer) – Ove Arup & Partners Hong Kong Limited

Sang Hing (Main Contractor) – Sang Hing Civil Contractors Co., Ltd

ACUITY (IEC) – Acuity Sustainability Consulting Limited

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



Appendix C

Three Months rolling Programme



Three Months rolling Programme of Contract CV/2016/10

Contract No. CV/2016/10 Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

3-month Rolling Programme (Sep 2020 to Nov 2020)

Deve	lopmer	t of Columbarium at Sandy Ridge Cemetery					
ID	6	Fask Name	Duration	Start	Fi ni sh		
1		Key Dates	2199 dave	Fri 15/12/17	Fri 22/12/23	Sep	Oct
				Wed 17/7/19	Fri 22/12/23		
				Fri 15/12/17	Sat 11/7/20		
136				Thu 11/10/18	Fri 3/7/20		
137	4	•		Wed 14/11/18	Wed 3/6/20		
142	1		83 days	Thu 23/1/20	Sat 9/5/20		
142	2	(Filter Blanket from 42.4mPD to 44.9mPD)	-				
143	Ø.,		300 days	Tue 28/5/19	Wed 3/6/20		
144	<u> </u>		220 days	Wed 14/8/19	Sat 16/5/20		
145	4			Thu 11/10/18	Fri 3/7/20		
150	8	FS1 North Backfilling Stage 5 (~7.5 m height, Section 14 up to Proposed Platform), (Filter blanket	83 days	Mon 24/2/20	Sat 6/6/20		
150 151	19	44.3 to 46.8mPD)	175	Tue 10/11/10	M 1 17/0/00		
151	- M		175 days	Tue 12/11/19 Wed 26/6/19	Wed 17/6/20 Fri 3/7/20		
152	2.			Wed 11/9/19	Sat 13/6/20		
153 154 157	2			Mon 23/7/18	Sat 13/0/20		
157				Mon 3/2/20	Tue 9/6/20		
159				Mon 18/5/20	Tue 9/6/20		
161				Mon 18/5/20	Mon 8/6/20		
162				Mon 23/7/18	Sat 11/7/20		
163				Fri 27/3/20	Tue 5/5/20		
164				Tue 24/3/20	Thu 28/5/20		
166				Fri 27/3/20	Mon 4/5/20		
			45 days	Wed 6/5/20	Sat 27/6/20		
167 168	2			Wed 10/6/20	Mon 6/7/20		
169	1	• • • • • • • • • • • • • • • • • • •		Sat 20/6/20	Sat 11/7/20		
170			337 days	Tue 21/5/19	Sat 11/7/20		
173	4	Woodland Planting at Fill Slope	300 days	Wed 26/6/19	Fri 3/7/20		
174	4	Hydroseeding at Fill Slope	300 days	Tue 2/7/19	Wed 8/7/20		
175	1		15 days	Wed 10/6/20	Sat 27/6/20		
176	2	Shrubs Planting at Planter E2 at Pick-up/Drop Off	10 days	Mon 29/6/20	Fri 10/7/20		
177		Irrigation System and Water Points (Except Water Connection)	24 days	Mon 18/5/20	Sat 13/6/20		
178				Tue 30/6/20	Sat 11/7/20		
179				Fri 15/12/17	Mon 28/6/21		
186	4			Fri 15/12/17	Mon 28/6/21	_	
187	- -	Utilities Diversion/Protection Works	000 4000		Wod 20/0/20		
400				Fri 15/12/17	Wed 30/9/20		
188	2	НКТ	820 days	Fri 15/12/17	Wed 30/9/20		
188	2	HKT Supporting / Diversion of Existing HKT Cable	820 days 700 days	Fri 15/12/17 Thu 17/5/18	Wed 30/9/20 Wed 30/9/20		
188 191 206	N N N	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3	820 days 700 days 199 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20		
188 191 206 208		HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2	820 days 700 days 199 days 66 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20		
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188 191 206 208 209 210 211		HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2	820 days 700 days 199 days 66 days 98 days 98 days 27 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20		
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188 191 206 208 209 210 211 212 219	₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12	820 days 700 days 199 days 66 days 98 days 98 days 27 days 27 days 759 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21		
188 191 206 208 209 210 211 212	₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos.	820 days 700 days 199 days 66 days 98 days 98 days 27 days 27 days 759 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20		
188 191 206 208 209 210 211 212 219 227	₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼ ₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain)	820 days 700 days 199 days 66 days 98 days 98 days 27 days 27 days 759 days 84 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20		
188 191 206 208 209 210 211 212 219 227 228	₼₼₼ ₼ ₼₼₼ <mark>₯</mark> ₼ <u>₯</u> ₼ ₼₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos.	820 days 700 days 199 days 66 days 98 days 98 days 27 days 27 days 759 days 84 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21		
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188 191 206 208 209 210 211 212 219 227 228 231 232	₼₼ ₼₼ ₼₼₼₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works	820 days 700 days 199 days 66 days 98 days 98 days 27 days 27 days 759 days 84 days 56 days 347 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Tue 1/9/20		
188 191 206 208 209 210 211 212 219 227 228 231 232 233	₼ ₼₼₼ ₼ ₼ ₼₼ ₼ ₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works Landscape Works at Cut Slopes CS11 & CS12	820 days 700 days 199 days 66 days 98 days 27 days 27 days 759 days 84 days 56 days 347 days 450 days 703 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20 Thu 24/10/19 Wed 27/2/19 Tue 22/1/19	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Tue 1/9/20 Thu 24/12/20		
188 191 206 208 209 210 211 212 219 227 228 231 232 233 236	₼₼₼₼ ₼ ₼₼₼₼ <mark>₯</mark> ₼ ₼ ₼ ₼ ₼ ₼ , , , , , , , , , , , , , , , , , , ,	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works Landscape Works at Cut Slopes CS11 & CS12 Planter W1 & W2 Construction Stage 2 from +72 mPD to Toe Level	820 days 700 days 199 days 66 days 98 days 27 days 27 days 759 days 84 days 56 days 347 days 450 days 703 days 352 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20 Thu 24/10/19 Wed 27/2/19 Tue 22/1/19 Fri 23/8/19	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Tue 1/9/20 Thu 24/12/20 Tue 8/9/20 Fri 18/6/21 Wed 4/11/20		
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188 191 206 208 209 210 211 212 219 227 228 231 232 233 236 237 241 242	₫₫₫₫₫⊘₫⊘₫₯₫₯₽₽₫₫₽₽₫₽	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works Landscape Works at Cut Slopes CS11 & CS12 Planter W1 & W2 Construction Stage 2 from +72 mPD to Toe Level Shrub Planting at Planter W1 & W2 Stage 2 from +72 mPD to Toe Level Harter W1 & W2 Construction Stage 2 from +72 mPD to Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Retaining Wall RW11	820 days 700 days 199 days 66 days 98 days 27 days 27 days 759 days 84 days 56 days 347 days 450 days 703 days 352 days 352 days 212 days 307 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20 Thu 24/10/19 Wed 27/2/19 Tue 22/1/19 Fri 23/8/19 Tue 10/3/20 Sat 15/2/20 Fri 29/5/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Tue 1/9/20 Tue 3/9/20 Fri 26/6/20 Fri 18/6/21 Wed 4/11/20 Mon 24/5/21 Wed 4/11/20 Sat 12/6/21		
188 191 206 208 209 210 211 212 219 227 228 231 232 233 236 237 241 242 243	₫₫₫₫₫⊘₫⊘₫₯₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works Landscape Works at Cut Slopes CS11 & CS12 Planter W1 & W2 Construction Stage 2 from +72 mPD to Toe Level Shrub Planting at Planter W1 & W2 Stage 2 from +72 mPD to Toe Level Harder W1 & W2 Construction Stage 2 from +72 mPD to Toe Level Shrub Planting at Planter W1 & W2 Stage 2 from +72 mPD to Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Retaining Wall RW11 Installation of Temporary Works	820 days 700 days 199 days 66 days 98 days 27 days 27 days 27 days 84 days 56 days 347 days 352 days 352 days 352 days 352 days 307 days 70 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20 Thu 24/10/19 Wed 27/2/19 Tue 22/1/19 Fri 23/8/19 Tue 10/3/20 Sat 15/2/20 Fri 29/5/20 Fri 29/5/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Tue 1/9/20 Tue 8/9/20 Fri 18/6/21 Wed 4/11/20 Mon 24/5/21 Wed 4/11/20 Sat 12/6/21 Thu 20/8/20		
188 191 206 208 209 210 211 212 219 227 228 231 232 233 236 237 241 242 243 249	₼₼₼₼₯₼₯₼₯₼₯₼₼₼₼₼	HKT Supporting / Diversion of Existing HKT Cable Landscape Works at Cut Slopes CS1, CS2 & CS3 Shrub Planting at Planter W1 & W2 at CS1 & CS2 Planter W2 Construction at CS3 Shrub Planting at Planter W2 at CS3 Planter E2 Construction besides CS2 Shrub Planting at Planter E2 besides CS2 Cut Slopes CS11 & CS12 Excavate to +49.5 mPD, Pull Out Test, Soil Nails and Raking Drains (433 nos. of Soil Nail, 65 nos. of Raking Drain) Excavate to Toe Level, Pull Out Test, Soil Nails and Raking Drains (168 nos. of Soil Nail, 33 nos of Raking Drain) Drainage and Maintenance Access from +72 mPD to Toe Level Geotechnical Instrumentation Works Landscape Works at Cut Slopes CS11 & CS12 Planter W1 & W2 Construction Stage 2 from +72 mPD to Toe Level Shrub Planting at Planter W1 & W2 Stage 2 from +72 mPD to Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Hydroseeding Stage 2 from +72 mPD tp Toe Level Retaining Wall RW11 Installation of Temporary Works Cut Slope CS13	820 days 700 days 199 days 66 days 98 days 27 days 27 days 27 days 84 days 56 days 347 days 352 days 352 days 352 days 352 days 307 days 70 days 70 days	Fri 15/12/17 Thu 17/5/18 Fri 31/1/20 Thu 23/4/20 Tue 4/2/20 Fri 5/6/20 Thu 23/4/20 Wed 27/5/20 Sat 1/9/18 Thu 12/3/20 Sat 27/6/20 Thu 24/10/19 Wed 27/2/19 Tue 22/1/19 Fri 23/8/19 Tue 10/3/20 Sat 15/2/20 Fri 29/5/20 Fri 29/5/20 Fri 29/5/20 Fri 29/5/20	Wed 30/9/20 Wed 30/9/20 Tue 29/9/20 Mon 13/7/20 Thu 4/6/20 Tue 29/9/20 Tue 26/5/20 Sat 27/6/20 Thu 8/4/21 Fri 26/6/20 Thu 24/12/20 Tue 8/9/20 Fri 18/6/21 Wed 4/11/20 Mon 24/5/21 Wed 4/11/20 Sat 12/6/21 Thu 20/8/20		
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	Hsin Chong Tsun Yip Joint Venture
Nov	Dec Dtr 1
AUX 1	

Contract No. CV/2016/10 Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

3-month Rolling Programme (Sep 2020 to Nov 2020)

cvciopii	ient of Columbarium at Sandy Ridge Cemetery							
0	Task Name	Duration	Start	Finish	Sep	Qtr 4, 2020	Oct	
78 🏝	Geotechnical Instrumentation Works	460 days	Tue 23/10/18	Wed 20/5/20			001	
19 🎦	Landscape Works at Cut Slope CS15	613 days	Thu 3/1/19	Wed 3/2/21				
0 🚳	Planter W1 & W2 Construction	288 days	Mon 10/6/19	Mon 1/6/20				
1 🏹	Shrub Planting at Planter W1 & W2	300 days	Fri 31/1/20	Wed 3/2/21				
2 🏹	Hydroseeding	450 days	Thu 3/1/19	Sat 18/7/20				
2 🔽 1 🛂	Fill Slope FS17	717 days	Thu 5/7/18	Thu 10/12/20				
8 🏹	Existing Slope Upgrading Works	172 days	Tue 12/11/19	Sat 13/6/20				
9 🏝	Existing Feature 3NW-C/F37 Upgrading Re-compaction	150 days	Tue 12/11/19	Tue 19/5/20				
1 🔁	Existing Feature 3NW-C/C258 Slope Upgrading Works	74 days	Thu 12/3/20	Sat 13/6/20				
		23 days	Wed 8/4/20	Sat 9/5/20				
13 🤌	Soil Nail, 8 Nos. of Raking Drain)							
14 🔞	Drainage and Maintenance Access	67 days	Fri 20/3/20	Sat 13/6/20				
15 🏝		310 days	Mon 11/5/20	Fri 28/5/21				
16 🏝	Sewerage and Drainage	105 days	Thu 18/6/20	Thu 22/10/20				
17 🚫	Drainage and Sewerage Works	105 days	Thu 18/6/20	Thu 22/10/20				
8 🎽	Utilities and Watermains Works	128 days	Thu 18/6/20	Sat 21/11/20				
19 🚳	Watermains Works	55 days	Thu 18/6/20	Sat 22/8/20				
21 🏹		148 days	Mon 11/5/20	Fri 6/11/20				
22 🚳	Tree Planting	48 days	Mon 11/5/20	Tue 7/7/20				
76 🏝			Fri 15/12/17	Wed 23/12/20				
37	Sha Ling Road (M001 CH +40 to +180)		Sat 1/12/18	Sat 19/12/20				
89	Noise Barrier	189 days	Tue 18/2/20	Wed 7/10/20				
90 🔞		69 days	Tue 18/2/20	Fri 15/5/20		'		
91 🚳		32 days	Fri 17/4/20	Tue 26/5/20				
92 🚳		32 days	Sat 16/5/20	Mon 22/6/20				
93 🚳	Superstructure of Noise Barrier Construction Bay 3 to Bay 8	120 days	Sat 16/5/20	Wed 7/10/20				
94 🔁		72 days	Wed 27/5/20	Thu 20/8/20				
95 🔞	Drainage and Sewerage Works	72 days	Wed 27/5/20	Thu 20/8/20				
96 🍒	Utilities and Watermains Works	355 days	Thu 18/7/19	Sat 26/9/20				
99 🚳	Watermains Works		Wed 10/6/20	Mon 6/7/20		1		
00 🚳		21 days	Tue 7/7/20	Sat 8/8/20				
08		29 days	Tue 7/7/20					
10 🚳		138 days	Tue 7/7/20	Sat 19/12/20 Mon 17/8/20				
13	Irrigation System and Water Points	36 days						
1.7	Man Kam To Road Bus Shelter	836 days	Fri 15/12/17	Wed 21/10/20			II.	
417 🔁	Road Lighting E&M works, Testing and Comissioning (by others)	45 days	Fri 17/4/20	Wed 10/6/20				
19 🚳	Backfilling to Formation Level	30 days	Fri 17/4/20	Sat 23/5/20				
20 🚳	Carraigeway, Pavement, Road Marking and Street Furniture	65 days	Mon 25/5/20	Mon 10/8/20				
20 陵	Tree Planting Sha Ling Road (M001 CH+0 to +40), Man Kam To Road Drainage, Sewerage, Watermains and	75 days 749 days	Fri 24/7/20 Fri 8/6/18	Wed 21/10/20 Wed 23/12/20	_		N ²	
	Other Utilities	749 uays	FII 0/0/10	wed 23/12/20				
23 🛃		000 dava	Thu 19/12/19	Wed 23/12/20				
		298 days		Fri 26/6/20				
		150 days	Thu 19/12/19					
25 🤣 26 🤣	Backfilling to Road Formation Level at Noise Barrier Bay 1 to Bay 2	45 days	Sat 27/6/20	Wed 19/8/20				
1.0	Superstructure of Noise Barrier Construction Bay 1 to Bay 2	40 days	Sat 27/6/20	Thu 13/8/20				
40 🎦	0		Fri 31/1/20	Wed 12/8/20				
41 🔌 42 🔌		112 days	Fri 31/1/20	Wed 17/6/20				
	Watermains Works	76 days	Fri 31/1/20	Wed 6/5/20				
43 M	Backfill to Formation Level	30 days	Thu 18/6/20	Fri 24/7/20				
44 Y	Carraigeway Reinstatement, Road Marking and Preparation Works for Change of TTA	16 days	Sat 25/7/20	Wed 12/8/20				
54 🛀	Part C	570 days	Tue 15/1/19	Wed 23/12/20				
	Drainage and Sewerage Works and Connections TTA Stage 2	112 days	Thu 20/2/20	Thu 9/7/20				
)) 🎽	Paving Works	40 days	Fri 10/7/20	Tue 25/8/20				
)4 🐴	E&M and Waterworks	570 days	Tue 15/1/19	Wed 23/12/20				
56 🚣	Watermain Works and Connection TTA Stage 2	100 days	Fri 31/1/20	Wed 3/6/20				
69 🎽	CLP Meter Application	90 days	Thu 9/4/20	Thu 30/7/20				
/0 🚰	CLP Cabling Works	120 days	Fri 31/7/20	Wed 23/12/20				
12 🚰	Part D		Sat 15/12/18	Tue 15/12/20				
43 3 3 44 3 3 54 3 3 53 3 3 56 3 3 56 3 3 70 3 3 72 3 3 74 3 3	Parts G1 and G2	300 days	Thu 18/7/19	Fri 24/7/20				
36 🔁	Fill Slope FS13	127 days	Tue 18/2/20	Fri 24/7/20				
39 🧆	Backfill to Proposed Ground Level (Max. 2.5m)	36 days	Wed 29/4/20	Thu 11/6/20				
90 🤌		35 days	Fri 12/6/20	Fri 24/7/20				
91 🔞	Sewerage and Drainage	72 days	Wed 27/5/20	Thu 20/8/20				
92 🔞	Utilities and Watermains Works	21 days	Wed 10/6/20	Mon 6/7/20				
94 👲	Landscape Works		Tue 7/7/20	Sat 19/12/20				
45 🎦	Section 4 of the Works		Sun 12/7/20	Wed 12/7/23				
46 强	Establishment Works of Parts A1, A2 & A3 Section 6 of the Works		Sun 12/7/20	Wed 12/7/23				
	Castien C of the Works	1000 dave	Fri 6/12/19	Mon 5/12/22				
49 🏝	Section 6 of the works							
549 🛃 550 🛃	Establishment Works of Part E		Fri 6/12/19	Mon 5/12/22				

3-month Rolling Programme (May 2020 to July 2020)	Task Split	 Mile stone Summary	¢ ۱	Project Summary External Tasks	External Milestor Deadline	e ◆ ₽	Critical Critical Split		Progress		
Date: May 2020											
							Page	2			

		Hsin Chong Tsun Yip Joi	int Venture
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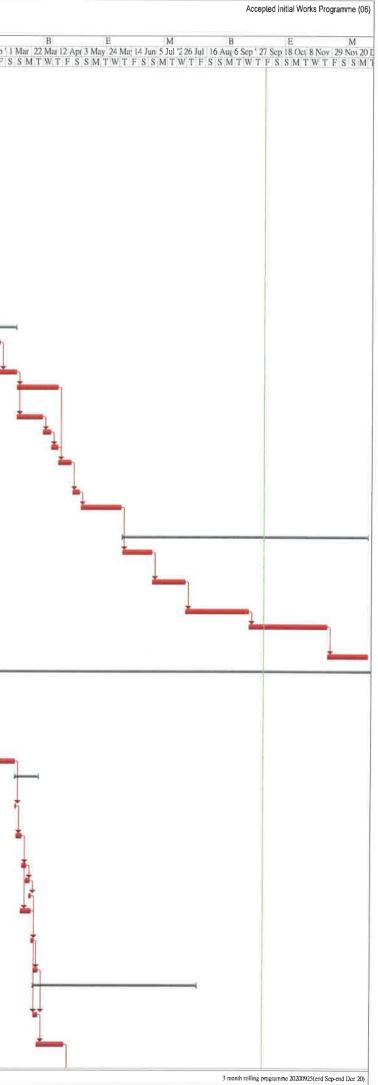


Three Months rolling Programme of Contract CV/2017/02

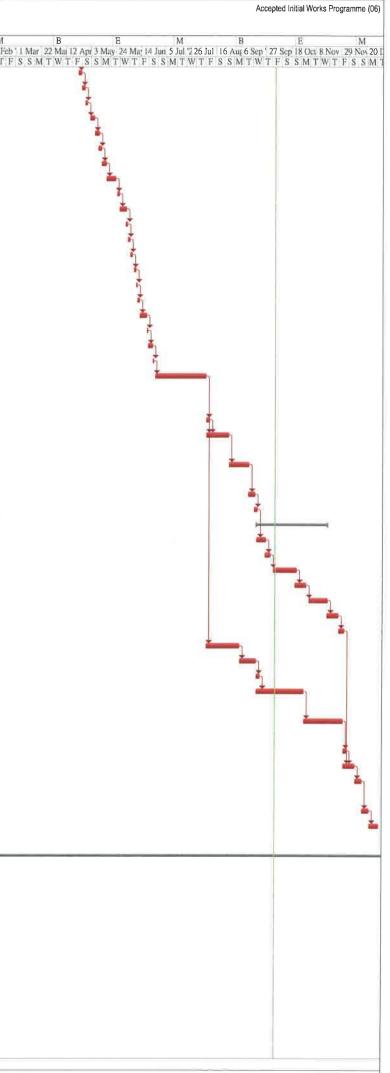
evelopment Infrastructu	CV/2017/02 of Columbarium at Sandy Ridge Cemetery ral Works at Man Kam To Road and Lin Ma Hang Road						3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
WBS	'Task Name	Duration	Start Date	Completion Date	M B E aj 10 Jun 1 Jul 1 22 Jul 12 Aug 2 Sep 1 23 Sep T F S S M T W T F S S M T W T F	14 Oct 4 N	M B E M B E M B E M 4 Nov 25 Nov 16 Dec 6 Jan 127 Jan 17 Feb 10 Mar 31 Mar 21 Apr 12 Mar 2 Jun 123 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct 127 Oct 17 Nov 8 Dec 129 Dec 19 Jan 9 Feb T W T F S S M T W T F S
T (1)	Letter of Acceptance	0 days	Wed 30/5/18				
2 2	Starting Date	0 days	Thu 31/5/18	Thu 31/5/18		1	
3 3	ET Submissions	9 days	Wed 26/9/18	Fri 5/10/18		-	
12 4	Applications to Government Department	27 days		Sat 30/6/18			
20 5	Submissions & acceptances	835 days	Mon 4/6/18	Tue 15/9/20			
44 :6	Liaison with Utility Undertakers	979 days		Wed 3/2/21			
47 7	Liaison with Contract CV/2016/01 regarding Parts A1 to A4 (refer PS Appendix A1)	979 days	Fri 1/6/18	Wed 3/2/21			
48 8	Liaison Meeting with Interface and associated contractors	389 days	Fri 1/6/18	Mon 24/6/19		-	•
53 9	Tree Survey Reporting	164 days	Fri 1/6/18	Sun 11/11/18		_	-
58 10	Street Lighting Designs by the Contractor	671 days		Wed 1/4/20			
66 11	Provision of Project Manager's Site Accommodation (PS1.08A(b) & 1.49)	28 days	Fri 1/6/18	Thu 28/6/18			
67 12	Design of irrigation system within the Sandy Ridge Cemetery (LS/2021, 2041, 2042, W/1041,1011)	21 days	Fri 20/12/19	Fri 10/1/20			
70 13	Condition Survey	81 davs	Thu 23/8/18	Sun 11/11/18		_	-
77 14	section 1 of the works - Completion of all works within Parts A1, A2 and B of the Site except Establishment works		Thu 31/5/18	Wed 3/2/21			
78 14.1	Parts A1	859 days	Fri 28/9/18	Wed 3/2/21		_	
79 14.1.1	access date for section 1 (Parts A1) - not more than 120 days after the starting date	0 days	Fri 28/9/18	Fri 28/9/18	1		
80 14.1.2	form temporary haul road from the south side to Parts A1	14 days	Tue 2/10/18	Mon 22/10/18	*		
81 14.1.3	general site clearance	30 days	Tue 23/10/18	Wed 28/11/18		*	
82 14.1.4	initial survey	27 days	Thu 29/11/18	Wed 2/1/19			
83 14.1.5	construction of temporary drainage	21 days	Thu 3/1/19	Sat 26/1/19			
84 14.1.6	Site Formation works for Cut Slope CS22 (in Parts A1)	258 days	Mon 28/1/19	Mon 23/12/19			
101 14.1.7	A1) Construction of Retaining Wall RW13 (bays 1 to 5)	-					· · · · · · · · · · · · · · · · · · ·
102 14.1.7.1	excavation with installation of temporary soil nails work behind RW13 (bays 1 to 5)	56 days	Mon 15/4/19	Tue 25/6/19			
103 14.1.7.2	plate load tests	3 days	Wed 26/6/19	Fri 28/6/19			
104 14.1.7.3		3 days	Sat 29/6/19	Wed 3/7/19			
105 14.1.7.4		2 days	Wed 3/7/19	Thu 4/7/19			t t
106 14.1.7.5		3 days	Fri 5/7/19	Mon 8/7/19			a de la constancia de la c
107 14.1.7.6	3	5 days	Tue 9/7/19	Sat 13/7/19			1
108 14.1.7.7		3 days	Mon 15/7/19	Wed 17/7/19			the second se
109 14.1.7.8	falsework and formwork for alternative 3 walls	4 days	Thu 18/7/19	Mon 22/7/19			
110 14.1.7.9		9 days	Tue 23/7/19	Thu 1/8/19			▲
111 14.1.7.1	-	3 days	Fri 2/8/19	Mon 5/8/19			a,
112 14.1.7.1		6 days	Mon 5/8/19	Sat 10/8/19			≛ ,
113 14.1.7.1	Ū.	3 days	Sat 10/8/19	Tue 13/8/19			i i i i i i i i i i i i i i i i i i i
114 14.1.7.1		2 days	Tue 13/8/19	Wed 14/8/19			1
115 ⁻¹ 14.1.7.1		2 days	Wed 14/8/19	Thu 15/8/19			
115 14.1.7.1		2 days 4 days	Fri 16/8/19	Tue 20/8/19			
117 14.1.7.1	v	2 days	Tue 20/8/19	Wed 21/8/19			
118 14.1.7.1			Wed 21/8/19	Fri 23/8/19			
119 14.1.7.1	8 steel fixing for two walls	6 days	Fri 23/8/19	Thu 29/8/19			≛ ,
120 14.1.7.1	9 close formwork for two walls	2 days	Thu 29/8/19	Fri 30/8/19			a di se di
121 14.1.7.2	0 concrete and curing for two walls	4 days	Sat 31/8/19	Wed 4/9/19			↓
122 14.1.7.2	1 remove falsework & formwork	2 days	Wed 4/9/19	Thu 5/9/19			r i i i i i i i i i i i i i i i i i i i
123 14.1.7.2	2 after completion of RW13 (bay 1 to 5) , backfilling & compaction behind wall to formation (A1) (Drg GE/1101)	66 days	Fri 6/9/19	Mon 2/12/19			
124 14,1.7.2		9 days	Tue 3/12/19	Thu 12/12/19			
125 14.1.8	Site Formation works for Fill Slope FS18		Mon 15/4/19	Mon 3/2/20			
126 14.1.8.1	excavate top 3.5m from the existing slope profile (extent to be directed by PM)(Drg.GE/2305)	15 days	Mon 15/4/19	Mon 6/5/19			
	prepare formation for filter blanket		Tue 7/5/19				

	Accepted	Initial Works Programme (06)
B E M far 22 Mai 12 Apr 3 May 24 Mai 14 Jun 5 Jul 226 Jul 5 M 1 226 Jul s M T W T F S S M T W T F S S M T W T F S M T W T F	B 16 Aug 6 Sep * 27 Se S S M T W T F S	E M p 18 Oct 8 Nov 29 Nov 20 S S M T W T F S S M
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velon	ment of	/2017/02 Columbarium at Sandy Ridge Cemetery Norks at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
		Task Name	Duration	Start Date	Completion Date	M B E M B E M B E M B E M B E M B E M B E M B E M B B E M B B B B M B B B B M B B B B M B B B B M B B B B M B B B B M B B B B M B B B B M B B B B B M B B B B B B M B B B B B M B B B B B M B B B B B M B
28 14	.1.8.3	slope backfill FS18 with 2.1m filter blanket (GE/2601)	9 days	Wed 8/5/19	Sat 18/5/19	
29 (14	1.8.4	backilling from top of filter blanket to formation level (including SRT tests)	126 days	Thu 16/5/19	Mon 21/10/19	
30 14	1.8,5	construction of 1.5m width maintenance berm	2 days	Fri 18/10/19	Mon 21/10/19	
31 14	1.8.6	construction of U channel/ stepped channel and catchpits	37 days	Fri 18/10/19	Mon 2/12/19	
32 14 33 14		construction of U channel in front of RW13 600mm width concrete maintenance staircase with handrailing boxing out	,	Tue 3/12/19 Sat 7/12/19	Fri 6/12/19 Thu 19/12/19	
34 14	180	landscaping (hydroseeding)	27 days	Fri 20/12/19	Thu 23/1/20	
35 14		install instrument for FS18	6 days	Fri 24/1/20	Mon 3/2/20	
36 14		CS21 - slope cutting		Fri 20/12/19	Mon 30/12/19	
37 14	1.10	install instrument for CS21	5 days	Tue 31/12/19	Mon 6/1/20	
38 14	1.11	placement of erosion control mat/ hydroseeding	2 days	Tue 7/1/20	Wed 8/1/20	
39 :14	1 1 1 2	minor cutting CS26 (Parts A1) (for Road E)	7 days	Thu 9/1/20	Thu 16/1/20	
40 14	4.1.13	Drainage works at Road E	43 days	Fri 17/1/20	Tue 10/3/20	
41 14	1_13.1	main pipe laying	31 days	Fri 17/1/20	Tue 25/2/20	
42 14 43 14	4_1.13.2 4_1_14	gully pipe and pols Waterworks at Road E		Mon 24/2/20 Wed 11/3/20	Tue 10/3/20 Tue 14/4/20	
44 4			17 days	Mod 11/2/00	Mod 1/4/00	
44 14		CS23 - slope cutting & 300U channel		Wed 11/3/20	Wed 1/4/20 Wed 8/4/20	
45 14 46 14		install instrument for CS23 placement of erosion control mat/ hydroseeding	5 days 2 days	Thu 2/4/20 Thu 9/4/20	Tue 14/4/20	
47 14		backfilling of pipe trench to formation (including SRT test)		Wed 15/4/20	Sat 25/4/20	
48 14	1 1 10	300U channel behind RW13	4 days	Mon 27/4/20	Sat 2/5/20	
49 1		300U channel and planter wall at south side of Road		Mon 4/5/20	Sat 6/6/20	
		E				
50 14 51 14	4,1,21 4,1,21,1	Roadworks of Road E (A1-ch66-243) ducting for road lighting (RD/2091) & construction of irrigation system	164 days 20 days	Mon 8/6/20 Mon 8/6/20	Wed 30/12/20 Thu 2/7/20	
52 14	4.1.21.2	kerbing, sub-base (include subbase SRT test) & cross road duct (RD/2061, 2081)	24 days	Fri 3/7/20	Thu 30/7/20	
53 14	4.1.21.3	concrete pavement	45 days	Fri 31/7/20	Mon 21/9/20	
54 14	4.1.21.4	traffic signs, directional signs, type 2 railing, emergency crash gate, beam barriers	48 days	Tue 22/9/20	Thu 26/11/20	
55 14	4.1.21.5	concrete footpath	27 days	Fri 27/11/20	Wed 30/12/20	
.59 14	4,2	Parts A2			Wed 3/2/21	
160 14	4.2.1	access date for section 1 (Parts A2) - not more than 580 days after the starting date	0 days	Tue 31/12/19		
161 1		form temporary haul road to Parts A2		Thu 2/1/20	Wed 8/1/20	
162 1		general site clearance	18 days	Thu 9/1/20	Sat 1/2/20	
163 1		initial survey		Mon 3/2/20	Sat 15/2/20	
164 1- 165 1		construction of temporary drainage		Mon 17/2/20	Tue 10/3/20 Mon 30/3/20	
165 1	4.2.6	Site Formation works for Cut Slope CS22 (in Parts A2)	15 days	weg 11/3/20	Won 30/3/20	
166 1	4.2.6.1	slope excavation works	1 day	Wed 11/3/20	Wed 11/3/20	
167 1	4.2.6.2	drill, install steel bars and grout soil nails (TB01-06, TA01-07) & 3nrs. raking drain	4 days	Thu 12/3/20	Mon 16/3/20	
168 1	4.2.6.3	TDR test allowance	4 days	Tue 17/3/20	Fri 20/3/20	
169 1		soil nail head works	2 days	Fri 20/3/20	Mon 23/3/20	
170 1 171 1		install rest of instrument for CS22 300U channel, 300 stepped channel & catchpits		Mon 23/3/20 Mon 16/3/20		
172 1	4.2.6.7	with planter walls 600mm width concrete maintenance staircase with handrailing	2 days	Wed 25/3/20	Thu 26/3/20	
173 1		placement of erosion control mat/ hydroseeding	2 days	Fri 27/3/20	Mon 30/3/20	
174 1	14.2.7	Construction of Retaining Wall RW13 Bay 6 to Bay 8	3 107 days	Fri 27/3/20	Mon 10/8/20	
175 1	14.2.7.1	temporary cutling for retaining wall RW13 Bay 6 to 8	2 days	Fri 27/3/20	Mon 30/3/20	
176 1	14.2.7.2	temporary soil nails works for relaining wall RW13 Bay 6-8	15 days	Mon 30/3/20	Tue 21/4/20	



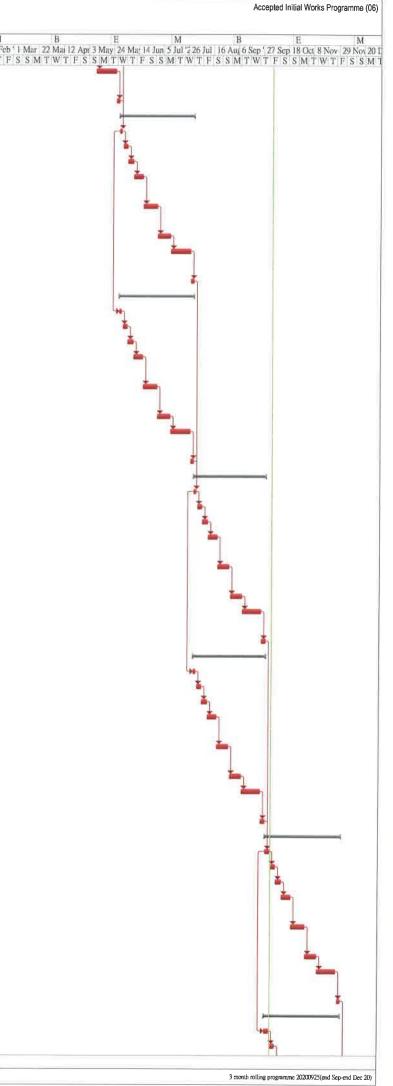
ntract No velopmen frastructu	t of Col	17/02 umbarium at Sandy Ridge Cemetery ks at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
WBS	Tas	k Name	Duration	Start Date	Completion Date	Ma' 10 Jun 1 Jul 1 22 Jul 12 Aug 2 Sep 1 20 Sep 1 4 Oct 4 Nov 25 Nov 16 Dec 6 Jan 1 27 Jan 17 Feb 10 Mar 31 Mar 21 Apr 12 Mar 2 Jun 1 23 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct 27 Oct 17 Nov 8 Dec 29 Dec 19 Jan
7 14.2.7.3	3	plate load tests	3 days	Wed 22/4/20	Fri 24/4/20	W T F S S M T W
78 14.2.7.4		blinding concrete for bay 6 to 8	2 days	Sat 25/4/20	Mon 27/4/20	
9 14.2.7.5	5	base formwork for bay 6 and 8	2 days	Tue 28/4/20	Wed 29/4/20	
14.2.7.6	6	base steel fixing for bay 6 and 8	3 days	Sat 2/5/20	Tue 5/5/20	
14.2.7	7	base concreting & curing for bay 6 & 8	4 days	Wed 6/5/20	Sat 9/5/20	
14.2.7.0		remove base formwork	2 days	Sat 9/5/20	Mon 11/5/20	
14.2.7.9		faisework and formwork for walls bay 6&8	4 days 7 days	Tue 12/5/20 Sat 16/5/20	Fri 15/5/20 Sat 23/5/20	
14.27.1 14.2.7.1		steel fixing for walls of bay 6 & 8 close formwork for walls of bay 6 & 8	2 days	Mon 25/5/20	Tue 26/5/20	
5 14.2.7.		concreting and curing for walls of bay 6&8		Wed 27/5/20	Mon 1/6/20	
7 14.2.7		remove falsework and formwork for walls	2 days	Mon 1/6/20	Tue 2/6/20	
8 14.2.7.	14	base formwork for bay 7	2 days	Wed 3/6/20	Thu 4/6/20	
14.2.7	15	base steel fixing for bay 7	2 days	Fri 5/6/20	Sat 6/6/20	
90 14.2.7.		base concreting & curing for bay 7	2 days	Mon 8/6/20	Tue 9/6/20	
] 14.2.7		remove base formwork	1 day	Wed 10/6/20	Wed 10/6/20	
92 14.2.7.		falsework and formwork for walls of bay 7	2 days	Thu 11/6/20	Fri 12/6/20 Thu 18/6/20	
03 14.2.7. 04 14.2.7.		steel fixing for walls of bay 7 close formwork for walls of bay 7	5 days 1 day	Sat 13/6/20 Fri 19/6/20	Fri 19/6/20	
4 14.2.7. 5 14.2.7.		close formwork for walls of bay 7 concreting and curing for walls of bay 7	3 days	Sat 20/6/20	Tue 23/6/20	
6 14.2.7.		remove falsework and formwork for walls	1 day	Wed 24/6/20	Wed 24/6/20	
97 14.2.7.		after completion of structural RW13 (bay 6 to 8), backfill behind wall to formation (A2) (Drg GE/1101)	36 days	Fri 26/6/20	Fri 7/8/20	
8 14,2,7.	24	install instrument for RW13 (bay 6 to bay 8)	2 days	Sat 8/8/20	Mon 10/8/20	
9 14.2.8		(west) drainage works at Road E (ch250 to 300)	16 days	Sat 8/8/20	Wed 26/8/20	
0 14,2.9		(west) waterworks at Road E (ch250 to 300)	15 days	Thu 27/8/20	Sat 12/9/20	
14.2.1	0	construction of Irrigation System	5 days	Sat 12/9/20	Thu 17/9/20	
14.2.1	1	U channel for Road E	3 days	Thu 17/9/20	Sat 19/9/20	
14.2.1		Roadworks of Road E (A2-ch243-300)	42 days	Sat 19/9/20	Tue 17/11/20	
14.2.1		kerbing & sub-base (include sub-base SRT test)	7 days	Sat 19/9/20	Sat 26/9/20	
05 14.2.1		ducting for road lighting & water point	4 days 15 days	Sat 26/9/20 Sat 3/10/20	Wed 30/9/20	
06 14.2.1		concrete pavement traffic signs, beam barriers		Wed 21/10/20		
08 14.2.1		concrete footpath		Mon 2/11/20		
09 14.2.1		street lighting for Road E (Drg/ RD/2091)	-	Tue 17/11/20		
10 14.2.1	4	landscaping (shrub planting)	4 days	Fri 27/11/20	Tue 1/12/20	
11 14.2.1	5	site formation works for Cut Slope CS26 (A2)	24 days	Sat 8/8/20	Fri 4/9/20	
12 14.2.1		site formation works for Cut Slope CS25 (A2)	12 days	Sat 5/9/20	Fri 18/9/20	
3 14.2.1		placement of erosion control mat/ hydroseeding	2 days	Sat 19/9/20 Sat 19/9/20	Mon 21/9/20	
4 14.2.1		drainage works at Road B & sewerage works at Road B waterworks at Road B		Thu 29/10/20		
IN THE	0	Waterworks at fload D	20 0030			
16 14.2.2		backfill formation for Road B	3 days	Tue 1/12/20		
14.2.2		street lighting ducts and drawpits at Road B	9 days		Thu 10/12/20	
14.2.2	2	arrange Town Gas to lay cables (NOT YET AGREED)	5 days	Fri 11/12/20	Wed 16/12/2	
19 14.2.2	3	planter wall for Road B	5 days	Thu 17/12/20	Tue 22/12/20	0
20 14.2.2		arrange HKT to lay PCCW cables (NOT YET AGREED)		Wed 23/12/20		
28 14.3		MKTR01B		Thu 31/5/18		
229 14,3,1		access date for section 1 (Parts B) - the starting date	0 days	Thu 31/5/18	Thu 31/5/18	3 •
230 14.3.2	2	Initial Survey	104 days	Fri 1/6/18	Thu 4/10/18	
14.3.3		utility detection and submit reports		Fri 5/10/18	Fri 9/11/18	
14.3.4		Man Kam Road		Fri 1/6/18	Fri 9/11/18	
236 14.3.5	5	Construction of Fresh Water Mains (DN400)-refer to Drawings No. MKTR Programme/W/001 & 002	352 days	Sat 10/11/18	⊢ri 17/1/20	
237 14.3.5		Phase 1: TTA 1s		Sat 10/11/18		
246 14.3.5		Phase 1: TTA 8s	•	Wed 14/11/18		
255 14.3.5		Phase 1: TTA 15s		Tue 20/11/18		
264 14.3.5	5.4	Phase 2: TTA 2s	39 days	Tue 15/1/19	Mon 4/3/19	



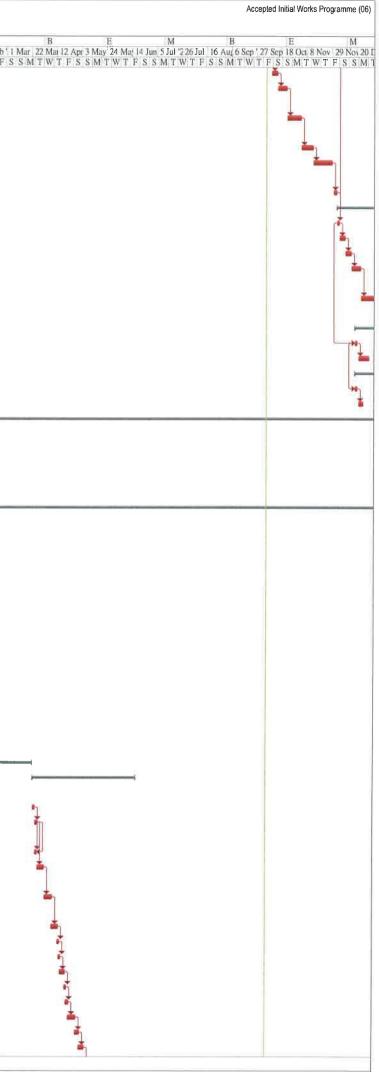
Devel	opment o	:V/2017/02 of Columbarium at Sandy Ridge Cemetery Il Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
ID	WBS	Task Name	Duration	Start Date	Completion Date	M B E M B E M B E M Ma: 10 Jun 1 Jul 122 Jul 12 Aug 2 Sep' 23 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan 27 Jan 17 Feb 10 Mai 31 Mai 21 Apr 12 Mai 2 Jun 23 Jun 14 Jul 4 Aug E M B E M W T F S S M T W T F S
	14.3.5.5	Phase 2; TTA 9s	39 days	Tue 15/1/19	Mon 4/3/19	
	14.3.5.6	Phase 2: TTA 16s		Mon 14/1/19	Mon 4/3/19	
2800.00	14.3.5.7 14.3.5.8	Phase 3: TTA3s Phase 3: TTA10s	39 days 39 days	Tue 5/3/19 Tue 5/3/19	Tue 23/4/19 Tue 23/4/19	
220-10.	14.3.5.9	Phase 3: TTATos	39 days	Tue 5/3/19	Tue 23/4/19	
	14.3.5.10	Phase 4: TTA4s		Mon 29/4/19	Fri 14/6/19	
327	14.3.5.11	Phase 4: TTA11s	38 days	Mon 29/4/19	Fri 14/6/19	
336	14.3.5.12	Phase 4: TTA18s	42 days	Wed 24/4/19	Fri 14/6/19	
ACC?C	14.3.5.13	Phase 5: TTA5s	,		Wed 7/8/19	
10000	14.3.5.14	Phase 5: TTA12s Phase 5: TTA19s	45 days	Sat 15/6/19 Sat 15/6/19	Wed 7/8/19 Wed 7/8/19	
	14.3.5.16	Phase 5: TTA 19s Phase 6: TTA6s	45 days 46 days	Fri 9/8/19	Thu 3/10/19	
	14,3,5,17	Phase 6: TTA13s	42 days	Wed 14/8/19	Thu 3/10/19	
390	14,3.5,18	Phase 6: TTA20s	47 days	Thu 8/8/19	Thu 3/10/19	
399	14,3,5,19	Phase 7: TTA7s	44 days	Tue 8/10/19	Wed 27/11/19	
408	14.3.5.20	Phase 7: TTA14s	46 days	Fri 4/10/19	Wed 27/11/19	
417	14.3.5.21	Phase 7: additional TTA21s		Thu 24/10/19 Wed 27/11/19		
	14.3.5.22 14.3.6	additional Phase 8: additional TTA 0s Construction of Sewerage (DN630) - refer to		Sat 18/1/20	Wed 3/2/21	
151	10000	Drawing No. MKTR Programme/DR/001	011 0030	Out TO/ 1/20	TTOU OFEILT	
.438	14.3.6.1	Phase A: TTA 1n	50 days	Tue 21/1/20	Sat 21/3/20	
439	14.3.6.1.1	mobilisation & set up TTA	2 days	Tue 21/1/20	Wed 22/1/20	m m m
440	14.3.6.1.2	01	4 days	Thu 23/1/20	Thu 30/1/20	
441	14.3.6.1.3		4 days	Fri 31/1/20	Tue 4/2/20 Wed 12/2/20	
492	14.3.6.1.4	trench sheetpiling	7 days	Wed 5/2/20	WEU 12/2/20	
443	14.3.6.1.5	excavate trench & shoring	7 days	Thu 13/2/20	Thu 20/2/20	
	14.3.6.1.6		9 days	Fri 21/2/20	Mon 2/3/20	
445	14.3.6.1.7	backfill trench & remove sheetpile, rail & strut	14 days	Tue 3/3/20	Wed 18/3/20	
446	14.3.5.1.8	reinstate trench & curing	3 days	Thu 19/3/20	Sat 21/3/20	
		Phase A: TTA 7n	52 days		Sat 21/3/20	
448	14.3.6.2.1		2 days	Sat 18/1/20	Mon 20/1/20	
TO COMPANY AN	14 3 6 2 2		4 days	Tue 21/1/20	Fri 24/1/20	ti i i i i i i i i i i i i i i i i i i
	14.3 6.2.3			Wed 29/1/20		
451	14.3.6.2.4	trench sheetpiling	7 days	Mon 3/2/20	Mon 10/2/20	
452	14.3.6.2.5	excavate trench & shoring	9 days	Tue 11/2/20	Thu 20/2/20	
	14 3 6 2 6		9 days	Fri 21/2/20	Mon 2/3/20	
454	14.3.6.2.7	backfill trench & remove sheetpile, rail & strut	14 days	Tue 3/3/20	Wed 18/3/20	
	14 3 6 2.8	•	3 days	Thu 19/3/20	Sat 21/3/20	
	14363	Phase B: TTA 2n		Mon 23/3/20	Thu 28/5/20	
	14.3.6.3.1 14.3.6.3.2			Mon 23/3/20 Wed 25/3/20	Tue 24/3/20 Sat 28/3/20	
	14.3.6.3.2		4 days 4 days	Mon 30/3/20	Sat 28/3/20 Thu 2/4/20	
	14.3.6.3.4		7 days	Fri 3/4/20	Wed 15/4/20	
461	14 3 6.3.5	excavate trench & shoring	9 days	Thu 16/4/20	Sat 25/4/20	
462	14.3.6.3.6	pipe laying & construct manhole	9 days	Mon 27/4/20	Fri 8/5/20	
463	14.3.6.3.7		14 days		Mon 25/5/20	
464	14.3.6.3.8	reinstate trench & curing	3 days	Tue 26/5/20	Thu 28/5/20	
465	14.3.6.4	Phase B: TTA 8n		Mon 23/3/20	Thu 28/5/20	
	14.3.6.4.1	•		Mon 23/3/20	Tue 24/3/20	
	14.3.6.4.2	61		Wed 25/3/20		
	14.3.6.4.3		4 days 7 days	Mon 30/3/20 Eri 3/4/20	Thu 2/4/20 Wed 15/4/20	
	14.3.6.4.4		7 days 9 days	Fri 3/4/20 Thu 16/4/20	Wed 15/4/20 Sat 25/4/20	
471	14.3.6.4.6	pipe laying & construct manhole	9 days	Mon 27/4/20	Fri 8/5/20	

		Accepted Inilia	al Works Programme (06
B E I Mar 22 Mai 12 Apr 3 May 24 Mai 14 Ju S S M T W T F S S M T W T F S	M an 5 Jul *226 Jul 16 / S M T W T F S S	B F Au ₁ 6 Sep ¹ 27 Sep 18 M T W T F S S	M Oct 8 Nov 29 Nov 20 M T W T F S S M

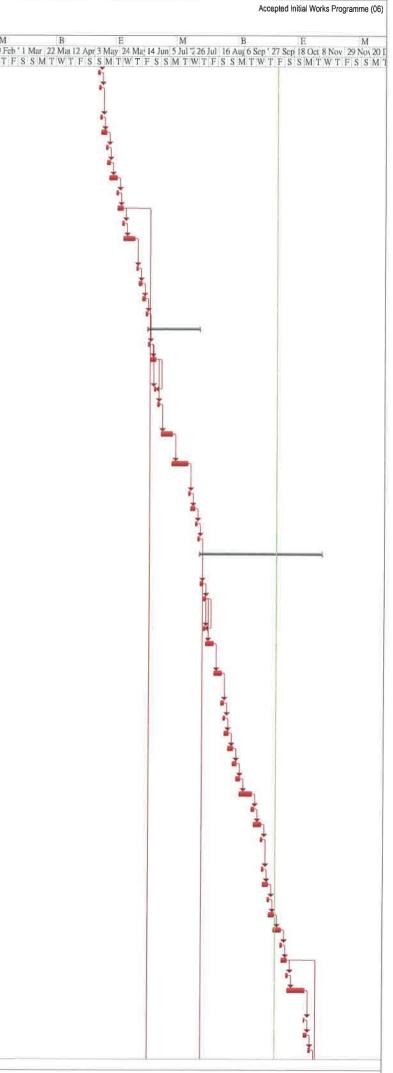
Develo	oment of	V/2017/02 f Columbarium at Sandy Ridge Cemetery Works at Man Kam To Road and Lin Ma Hang Road	1			3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)	
		Task Name	Duration	Start Date	Completion Date	May 10 Jun 1 Jul 1 22 Jul 12 Aut 2 Sep 1 23 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan 27 Jan 17 Feb 10 May 31 May 21 Apr 12 May 2 Jun 23 Jun 14 Jul 4 Aut 25 Aut 15 Sep 6 Oct 27 Oct 17 Nov 8 Dec 29 Dec 19 Jan 9 F	A Feb (
472	4.3.6.4.7	backfill trench & remove sheetpile, rail & strut	14 days	Sat 9/5/20	Mon 25/5/20	WTFSSMTWTFSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSS	ΓF
				T 00/5/00	TI 00/5/00		
473	4.3.6.4.8	reinstate trench & curing Phase C: TTA 3n	3 days 52 days	Tue 26/5/20 Fri 29/5/20	Thu 28/5/20 ' Thu 30/7/20		
	4.3.6.5.1	mobilisation & set up TTA	2 days	Fri 29/5/20	Sat 30/5/20		
	4.3.6 5 2	saw cut existing pavement and removal	4 days	Mon 1/6/20	Thu 4/6/20	20	
477	4 3.6.5.3	trial pits	4 days	Fri 5/6/20	Tue 9/6/20		
478	14.3.6.5.4	trench sheetpiling	7 days	Wed 10/6/20	Wed 17/6/20	20	
479	14.3.6.5.5	excavate trench & shoring	9 days	Thu 18/6/20	Mon 29/6/20	20	
480	14.3.6.5.6	pipe laying & construct manhole	9 days	Tue 30/6/20	Fri 10/7/20	20	
481	14.3.6.5.7	backfill trench & remove sheetpile, rail & strut	14 days	Sat 11/7/20	Mon 27/7/20	20	
482	14.3.6.5.8	reinstate trench & curing	3 days	Tue 28/7/20	Thu 30/7/20	20	
	14.3.6.6	Phase C: TTA 9n	52 days		Thu 30/7/20		
484	14.3.6.6.1	mobilisation & set up TTA	2 days	Fri 29/5/20	Sat 30/5/20	20	
485	14.3.6.6.2	saw cut existing pavement and removal	4 days	Mon 1/6/20	Thu 4/6/20	20	
	14.3.6.6.3	trial pits	4 days	Fri 5/6/20	Tue 9/6/20		
487	14.3.6.6.4	trench sheetpiling	7 days	Wed 10/6/20	Wed 17/6/20	20	
488	14.3.6.6.5	excavate trench & shoring	9 days	Thu 18/6/20	Mon 29/6/20	20	
489	14.3.6.6.6	pipe laying & construct manhole	9 days	Tue 30/6/20	Fri 10/7/20	20	
490	14.3.6.6.7	backfill trench & remove sheetpile, rail & strut	14 days	Sat 11/7/20	Mon 27/7/20	120	
491	14.3.6.6.8	reinstate trench & curing	3 days	Tue 28/7/20	Thu 30/7/20	20	
	14.3.6.7	Phase D: TTA 4n	52 days		Tue 29/9/20		
	14.3.6.7.1	mobilisation & set up TTA	2 days	Fri 31/7/20	Sat 1/8/20		
494	14.3.6.7.2	saw cut existing pavement and removal	4 days	Mon 3/8/20	Thu 6/8/20		
	14.3.6.7.3		4 days	Fri 7/8/20	Tue 11/8/20		
496	14.3.6.7.4	trench sheetpiling	7 days	Wed 12/8/20	Wed 19/8/20	/20	
497	14.3.6.7.5	excavate trench & shoring	9 days	Thu 20/8/20	Sat 29/8/20	20	
498	14.3.6.7.6	pipe laying & construct manhole	9 days	Mon 31/8/20	Wed 9/9/20	20	
499	14.3.6.7.7	backfill trench & remove sheetpile, rail & strut	14 days	Thu 10/9/20	Fri 25/9/20	20	
600			2 doub	Sat 26/9/20	Tue 29/9/20		
1000	14.3.6.7.8 14.3.6.8	reinstate trench & curing Phase D: TTA 10n	3 days 52 days		Tue 29/9/20 Tue 29/9/20		
	14.3.6.6.1		2 days	Fri 31/7/20	Sat 1/8/20		
	14.3 6 8.2		4 days	Mon 3/8/20	Thu 6/8/20		
504	14.3.6.8.3	trial pits	4 days	Fri 7/8/20	Tue 11/8/20	/20	
505	14.3.6.8.4	trench sheetpiling	7 days	Wed 12/8/20	Wed 19/8/20	/20	
506	14.3.6.8.5	excavate trench & shoring	9 days	Thu 20/8/20	Sat 29/8/20	20	
507	14.3.6.8.6	pipe laying & construct manhole	9 days	Mon 31/8/20	Wed 9/9/20	20	
12230	14.3.6.8.7			Thu 10/9/20		20	
509	14.3.6.8.8	reinstate trench & curing	3 days	Sat 26/9/20	Tue 29/9/20	/20	
	14.3.6.9	Phase E: TTA 5n		Wed 30/9/20			
	14.3.6.9.1		2 days				
	14.3.6.9.2		4 days				
	14.3.6.9,3		4 days		Tue 13/10/20		
514	14.3,6.9.4	trench sheetpiling	7 days	Wed 14/10/20	Wed 21/10/20	//20	
515	14.3.6.9.5	excavate trench & shoring	9 days	Thu 22/10/20	Mon 2/11/20	/20	
516	14,3.6,9,6	pipe laying & construct manhole	9 days	Tue 3/11/20	Thu 12/11/20	//20	
1	14.3.6.9.7				Sat 28/11/20		
518	14.3.6.9.8	reinstate trench & curing	3 davs	Mon 30/11/20	Wed 2/12/20	420	
	14.3.6.10				Wed 2/12/20		
1000 C	14.3.6.10.		2 days				
521	14.3.6.10	2 saw cut existing pavement and removal	4 days	Mon 5/10/20	Thu 8/10/20	/20	



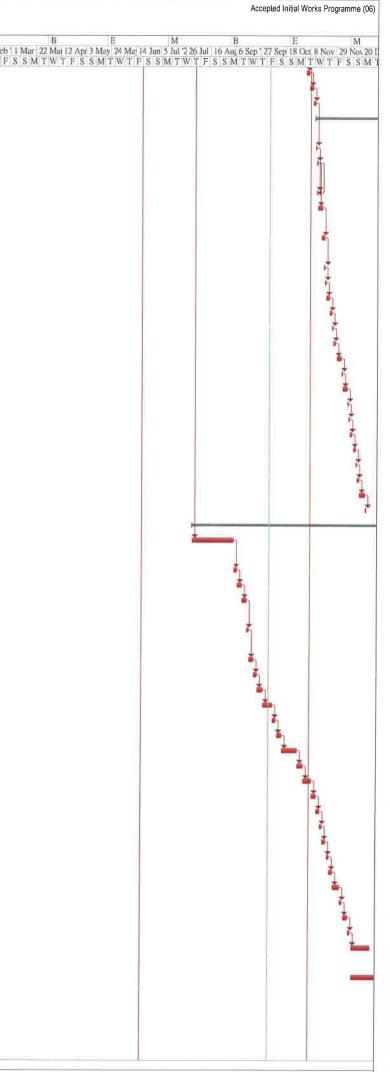
evelo Infras	tructural V	Columbarium at Sandy Ridge Cemetery Vorks at Man Kam To Road and Lin Ma Hang Road		- Approximation and			-		(from 26/	Rolling Program	020)		
	WBS	Task Name	Duration	Start Date	Completion Date	Ma: 10 Jun 1 Jul '1 22 Jul 12 Aug 2 Sep '	E 23 Sep 14 (M Oct 4 Nov	25 Nov 16 Dec 6 Jan 1 27 Jan 1	E M 7 Feb 10 Mai 31 Mai 21 Apr 1	B 2 May 2 Jun	E M B E 23 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct ' 27 Oct 17 Nov 8 Dec	M 29 Dec 19 Jan 9 Feb
22	14 3.6 10 3	trial pits	4 days	Eri 9/10/20	Tue 13/10/20	W T F S S M T W T F S S M T W	TFSS	SMTW	F F S S M T W T F S S M	ATWTFSSMTWT	FSSM	TWTFSSMTWTFSSMTWTFSSMTWT	FSSMTWTF
1	14 3.6 10.4	trench sheetpiling			Wed 21/10/20								
		a chorr chootphing	, cujo										
524	14.3 6 10.5	excavate trench & shoring	9 days	Thu 22/10/20	Mon 2/11/20								
	14 3 6 10 6	pipe laying & construct manhole	9 days	Tue 3/11/20									
526	14.3.6.10.7	backfill trench & remove sheetpile, rall & strut	14 days	Fri 13/11/20	Sat 28/11/20								
527	14 3 6.10.8	reinstate trench & curing	3 days	Mon 30/11/20	Wed 2/12/20								
528	14.3.6 11	Phase F: TTA 6n	51 days		Wed 3/2/21								
529	14 3 6.11 1	mobilisation & set up TTA	2 days	Thu 3/12/20	Fri 4/12/20								
	14.3,6.11.2	saw cut existing pavement and removal	4 days	Sal 5/12/20	Wed 9/12/20					1			
	14.3.6.11.3	trial pits	4 days		Mon 14/12/20								
532	14 3 6 11.4	trench sheetpiling	7 days	TUE 15/12/20	Tue 22/12/20								
533	14 3 6 11.5	excavate trench & shoring	8 days	Wed 23/12/20	Mon 4/1/21								
537	14.3.6.12	Phase F: additional TTA 12s	38 days	Fri 18/12/20	Wed 3/2/21								
	14.3.6.12.1	mobilisation & set up TTA	,										
	14.3.6.12.2	saw cut existing pavement and removal			Tue 29/12/20								
	14.3.6.13	Phase F: additional TTA 0n		Fri 18/12/20									
	14.3.6.13.1 14.3.6.13.2	mobilisation & set up TTA saw cut existing pavement and removal	2 days 4 days										
557		section 2 of the works - Completion of all works	-	Thu 31/5/18		bi mana ana ana ana ana ana ana ana ana an		_			_		
		within Parts C1 and C2 of the Site except Establishment works											
		Establishment works											
558		access date for section 2 (Part C1)	0 days										
559	17.2	Temporary Traffic Arrangement (TTA) Scheme for Lin Ma Hang Road	162 days	Fri 1/6/18	Fri 9/11/18			- C.					
565	17,3	works at Lin Ma Hang Road (section 2 Part C1) refer Appendice LMHR01a to d	817 days	Sat 10/11/18	Wed 3/2/21			-					
566	17.3.1	Phase I (stage 1)-south lane (chainage 240-283)	23 days	Sat 10/11/18	Thu 6/12/18			-					
	17.3.2	Phase I (stage 2)-north lane (chainage 240-283)	16 days		Thu 27/12/18				<u> </u>				
587	17.3.3	Phase I (stage 3)-south lane (chainage 283-335)			Mon 28/1/19)				
	17.3.4	Phase I (stage 4)-north lane (chainage 283-335)			Wed 20/2/19								
	17.3.5	Phase I (stage 5)-south lane (chainage 335-380)	18 days										
	17.3.6 17.3.7	Phase I (stage 6)-north lane (chainage 335-380)	16 days		Mon 1/4/19 Fri 3/5/19								
	17.3.8	Phase I (stage 7)-south lane (chainage 380-435) Phase I (stage 8)-north lane (chainage 380-435)	23 days 15 days		Wed 22/5/19						-		
	17.3.9	Phase I (stage 9)-south lane (chainage 190-240)	18 days		Thu 13/6/19						<u> </u>		
	17.3.10	Phase I (stage 10)-north lane (chainage 190-240)	16 days		Wed 3/7/19								
669	17.3.11	Phase II (stage 1)-south lane (chainage 32-85)-Noise Barrier MM6 (bays 1-3) & MM7 (bays 1-2)	95 days	Thu 4/7/19	Fri 25/10/19								
703	17.3.12	Phase II (stage 2)-north Iane (chainage 32-85)-Noise Barrier MM9 (bays 1-4)	84 days	Sat 26/10/19	Fri 7/2/20								
735	17 3 13	Phase II (stage 3)-south lane (chainage 85-138)	38 days	Sat 8/2/20	Mon 23/3/20								
	17.3 14	Phase II (stage 4)-north lane (chainage 85-138)-Noise Barrier MM10 (bays 1-4)	68 days		Wed 17/6/20								
747	17.3.14_1	TTA, UU detection	2 days	Tue 24/3/20	Wed 25/3/20								
748	17.3.14.2	tree felling	2 days		Fri 27/3/20								
			. .										
	17.3.14.3	saw cut & remove existing pavement	2 days		Fri 27/3/20								
150	17,3.14,4	install sheetpiles	5 days	Sat 28/3/20	Thu 2/4/20								
751	17.3.14.5	excavate and install rails and struts	5 days	Fri 3/4/20	Thu 9/4/20								
752	17.3.14.6	concrete blinding layers for 4 bays	2 days	Thu 9/4/20	Tue 14/4/20								
	17.3.14.7	formwork for bases of alternative first two bays	2 days										
	17.3.14.8	steel fixing for two bases	2 days										
	17.3.14.9 17.3.14.10	concrete and curing for two bases	4 days										
	17.3.14.10	remove formwork falsework and formwork for two walls	2 days 3 days										
-	17.3.14.11	steel fixing for two walls	6 days				1						
	17,3,14.13	close formwork for two walls	2 days										
	17.3 14 14	concrete and curing for two walls	4 days		Wed 6/5/20		1						



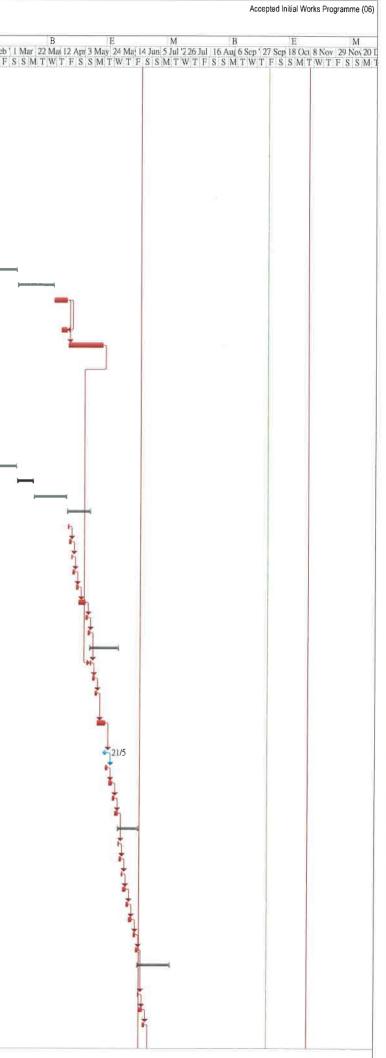
Develop	No. CV/20 ment of Co uctural Wo	017/02 Jumbarium at Sandy Ridge Cernetery orks at Man Kam To Road and Lin Ma Hang Road	1			3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
W C	'BS Ta	sk Name	Duration	Start Date	Completion Date	M B E M B E M B E M Ma: 10 Jun 1 Jul '1 22 Jul 12 Aug 2 Sep' 23 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan '27 Jan 17 Feb 10 Mai 31 Mai 21 Apr 12 Mai 21 Apr 12 Mai 2 Jun '23 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct '27 Oct 17 Nov 8 Dec '29 Dec 19 Jan 9 Feb W T F S S M T W T F
761 17		remove formwork	2 days	Wed 6/5/20	Thu 7/5/20	
762 17	3 14 16	formwork for bases of alternative second two bays	2 days	Thu 7/5/20	Fri 8/5/20	
763 17	.3 14 17	steel fixing for two bases	2 days	Fri 8/5/20	Sat 9/5/20	
764 17	3.14.18	concrete and curing for two bases	4 days	Sat 9/5/20	Wed 13/5/20	
765 17	3 14.19	remove formwork	2 days	Wed 13/5/20	Thu 14/5/20	
766 17		falsework and formwork for two walls	3 days	Thu 14/5/20	Sal 16/5/20	
767 17		steel fixing for two walls	6 days	Sat 16/5/20	Fri 22/5/20	
768 17		close formwork for two walls	2 days	Fri 22/5/20 Sat 23/5/20	Sat 23/5/20 Wed 27/5/20	
769 17 770 17		concrete and curing for two walls remove formwork	4 days 2 days	Wed 27/5/20	Thu 28/5/20	
771 17		backfill formation & SRT test	9 days	Thu 28/5/20	Sat 6/6/20	
772 17	3.14.26	lay kerb, sub-base	2 days	Mon 8/6/20	Tue 9/6/20	
773 11	7.3.14.27	sub-base SRT test	3 days	Wed 10/6/20	Fri 12/6/20	
774 15		DBM (Roadbase)	2 days	Sat 13/6/20	Mon 15/6/20	
775 17		base course and wearing course	2 days	Tue 16/6/20	Wed 17/6/20	
776 17		Phase II (stage 5)-south lane (chainage 138-190) TTA & UU detection	36 days	Thu 18/6/20 Thu 18/6/20	Fri 31/7/20 Fri 19/6/20	
778 1		tree felling	2 days 4 days	Sat 20/6/20	Wed 24/6/20	
nos. n		tree terming	, 00,0			
779 15		saw cut & remove exisling pavement	2 days	Tue 23/6/20	Wed 24/6/20	
780 1	7.3.15.4	excavate pipe trench and manhole(s)	2 days	Fri 26/6/20	Sat 27/6/20	
781 1	7.3.15.5	lay pipes & construct manhole(s)	8 days	Mon 29/6/20	Wed 8/7/20	
782 1	7.3.15.6	backfill formation & SRT test	12 days	Wed 8/7/20	Tue 21/7/20	
783 1	7.3.15.7	lay kerb, sub-base	2 days	Wed 22/7/20	Thu 23/7/20	
784 1	7.3.15.8	sub-base SRT test	3 days	Fri 24/7/20	Mon 27/7/20	
785 1	7 3 15 9	DBM (Roadbase)	2 days	Tue 28/7/20	Wed 29/7/20	
786 1		base course and wearing course	2 days	Thu 30/7/20	Fri 31/7/20	
787 1	7,3,16	Phase II (stage 6)-north lane (chainage 138-190)-Noise Barrier MM10 (bays 5-9)	85 days	Sat 1/8/20	Wed 11/11/20	
788 1		TTA, UU detection	2 days	Sat 1/8/20	Mon 3/8/20	
789 1	7.3.16.2	tree felling	2 days	Tue 4/8/20	Wed 5/8/20	
790 1	7.3.16.3	saw cut & remove existing pavement	2 days	Tue 4/8/20	Wed 5/8/20	
791 1	7.3.16.4	install sheetpiles	6 days	Thu 6/8/20	Wed 12/8/20	
792 1	7.3.16.5	excavate and install rails and struts	6 days	Thu 13/8/20	Wed 19/8/20	
793 1	7,3.16.6	concrete blinding layers for 5 bays	3 days	Wed 19/8/20	Fri 21/8/20	
794 1		formwork for bases of alternative first 3 bays	2 days	Fri 21/8/20	Sat 22/8/20	
795 1		steel fixing for 3 bases	3 days	Sat 22/8/20	Tue 25/8/20	
796 1		concrete and curing for 3 bases	5 days	Tue 25/8/20 Sat 29/8/20	Sat 29/8/20 Tue 1/9/20	
	7.3.16.10 7.3.16.11	remove formwork falsework and formwork for 3 walls	3 days 4 days	Tue 1/9/20	Fri 4/9/20	
1112011-0	7.3.16.12	steel fixing for 3 walls	9 days	Fri 4/9/20	Mon 14/9/20	
	7.3.16.13	close formwork for 3 walls	3 days	Mon 14/9/20		
801 1	7.3.16.14	concrete and curing for 3 walls	6 days	Wed 16/9/20	Tue 22/9/20	
802 1	7.3.16.15	formwork for bases of alternative second two bays	2 days	Tue 22/9/20	Wed 23/9/20	
803 1	7.3.16.16	steel fixing for two bases	2 days	Wed 23/9/20	Thu 24/9/20	
804 1	7.3.16.17	concrete and curing for two bases	4 days	Thu 24/9/20	Mon 28/9/20	
805 1	7.3.16.18	remove formwork	2 days	Mon 28/9/20		
	7.3 16 19	falsework and formwork for two walls	3 days	Tue 29/9/20		
	7.3.16.20	steel fixing for two walls	6 days	Sat 3/10/20	Fri 9/10/20 Sat 10/10/20	
	7.3.16.21 7.3.16.22	close formwork for two walls concrete and curing for two walls	2 days 4 days	Fri 9/10/20 Sat 10/10/20	Sat 10/10/20 Wed 14/10/20	
	7.3.16.22	remove formwork	4 days 2 days		Thu 15/10/20	
	17.3.16.24	backfill formation & SRT test			Thu 29/10/20	
812	17.3.16.25	excavate gully trench and gully pot(s)	1 day	Thu 29/10/20	Thu 29/10/20	
201210	7 3 16.26	lay& connect gully pipes& construct gully pot(s)	3 days		Sat 31/10/20	
814 1	7 3.16 27	lay kerb, sub-base	2 days	Mon 2/11/20	Tue 3/11/20	



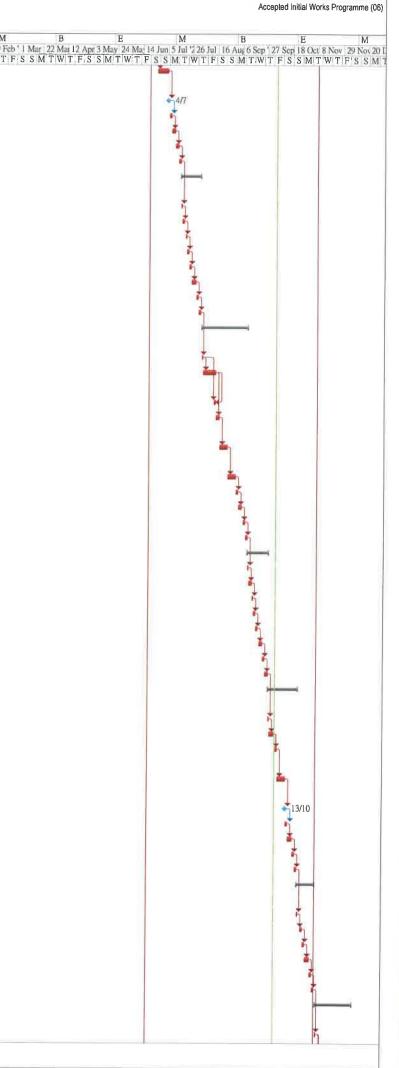
Develor	ment of	//2017/02 Columbarium at Sandy Ridge Cemetery Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
			Duration	Start Date	Completion Date	M B E M B
815 1	7.3.16.28	sub-base SRT test	3 days	Wed 4/11/20	Fri 6/11/20	witz 2 witwitz 2
816 1	7 3 16.29	DBM (Roadbase)	2 days	Sat 7/11/20	Mon 9/11/20	
	7.3.16.30	base course and wearing course			Wed 11/11/20	
818 1	7.3,17	Phase II (stage 7)-south lane (chainage 0-32)-Noise Barrier MM5 (bays 1-2)	53 days	Thu 12/11/20	Fri 15/1/21	
819 1	7.3.17 1	TTA, UU detection	1 day	Thu 12/11/20	Thu 12/11/20	
820 1	7.3.17.2	tree felling	1 day	Fri 13/11/20	Fri 13/11/20	
821 1	7.3.17.3	saw cut & remove existing pavement	1 day	Fri 13/11/20	Fri 13/11/20	
822 1	7.3.17.4	install sheetpiles	3 days	Sat 14/11/20	Tue 17/11/20	
823	7.3.17.5	excavate and install rails and struts	3 days	Tue 17/11/20	Thu 19/11/20	
824	7.3.17.6	concrete blinding layers for 2 bays	1 day	Thu 19/11/20	Thu 19/11/20	
825	7.3.17.7	formwork for base of the first bay	1 day		Fri 20/11/20	
	7.3.17.8	steel fixing for 1 base	2 days		Mon 23/11/20	
	7 3 17.9	concrete and curing	2 days		Wed 25/11/20 Thu 26/11/20	
CIDNES	7.3.17.10	remove formwork falsework and formwork for 1 wall	1 day 2 days		Sat 28/11/20	
1/13/001	17 3 17.12	steel fixing	4 days	Mon 30/11/20		
1119000	7.3.17.13	close formwork	1 day	Fri 4/12/20	Fri 4/12/20	
832	17.3.17.14	concrete and curing	3 days	Sat 5/12/20	Tue 8/12/20	
833	17.3 17 15	remove formwork	1 day	Wed 9/12/20	Wed 9/12/20	
834	17.3.17.16	formwork for base of the second bay	1 day		Thu 10/12/20	
100000	17,3.17.17	steel fixing	2 days		Sat 12/12/20	
	17.3 17 18	concrete and curing	2 days		Tue 15/12/20 Wed 16/12/20	
1.55	17.3.17.19 17.3.17.20	remove formwork falsework and formwork	1 day 2 days		Fri 18/12/20	
1	17 3 17.21	steel fixing	4 days		Wed 23/12/20	
1.	17.3.17.22	close formwork	1 day	Thu 24/12/20		
862	17.3.19	Noise Barrier MM8 (bays 1-3)	140 days	Sat 1/8/20	Mon 18/1/21	
863	17.3.19.1	construct alternative route to close the existing road	30 days	Sat 1/8/20	Fri 4/9/20	
	17.3.19.2	TTA road closure, UU detection	2 days	Sat 5/9/20	Mon 7/9/20	
	17.3.19.3 17.3.19.4	remove existing pavement install sheetpiles	4 days 3 days	Tue 8/9/20 Sat 12/9/20	Fri 11/9/20 Tue 15/9/20	
	17.3.19.5	excavate and install rails and struts			Thu 17/9/20	
020	47.0.40.0	and and a bladies layers for 2 hours	2 days	Fri 18/9/20	Mon 21/9/20	
	17 3 19.6 17 3 19 7	concrete blinding layers for 3 bays formwork for 2 bases	3 days 3 days	Tue 22/9/20	Thu 24/9/20	
210-1-1-	17.3 19.8	steel fixing for 2 bases	4 days	Fri 25/9/20	Tue 29/9/20	
	17.3.19.9	concrete and curing for 2 bases	5 days	Wed 30/9/20	Wed 7/10/20	
872	17.3.19.10	remove formwork for 2 bases	3 days	Thu 8/10/20	Sat 10/10/20	
873	17.3.19.11	falsework and formwork for 2 walls	4 days		Thu 15/10/20	
	17.3.19.12	steel fixing for 2 walls	10 days		Wed 28/10/20	
	17.3 19 13	close formwork for 2 walls	4 days		Mon 2/11/20	
	17.3.19.14	concrete and curing for 2 walls	6 days		Mon 9/11/20 Fri 13/11/20	
the second second	17 3 19 15 17 3 19 16	remove formwork for 2 walls formwork for base of the second 1 bay	4 days 2 days		Mon 16/11/20	
	17.3.19.17	steel fixing	2 days		Wed 18/11/20	
	17.3.19.18	concrete and curing	3 days		Sat 21/11/20	
881	17.3.19.19	remove formwork	2 days		Tue 24/11/20	
	17.3.19.20	falsework and formwork for wall	3 days		Fri 27/11/20	
100000	17,3.19.21	steel fixing	5 days	Sat 28/11/20		
	17.3 19.22		2 days	Fri 4/12/20	Sat 5/12/20	
	17.3.19 23 17.3.19 24	concrete and curing	4 days 2 days		Thu 10/12/20 Sat 12/12/20	
1	17.3.19.24	remove formwork backfill to formation			Tue 29/12/20	
	17.3.20	Street lighting (drawpits, abandon existing public lighting & cable, 100uPVC ducts) (ch0-435)	21 days	Mon 14/12/20) Sal 9/1/21	
894	17.3.23	Phase Ia (stage 101)-south lane (chainage 633-685)	20 days	Sat 10/11/18	Mon 3/12/18	
	17.3.24	Phase Ia (stage 102)-north lane (chainage 633-685)				
914	17.3.25	Phase Ia (stage 103)-south lane (chainage 685-740)				
						Page 8/20



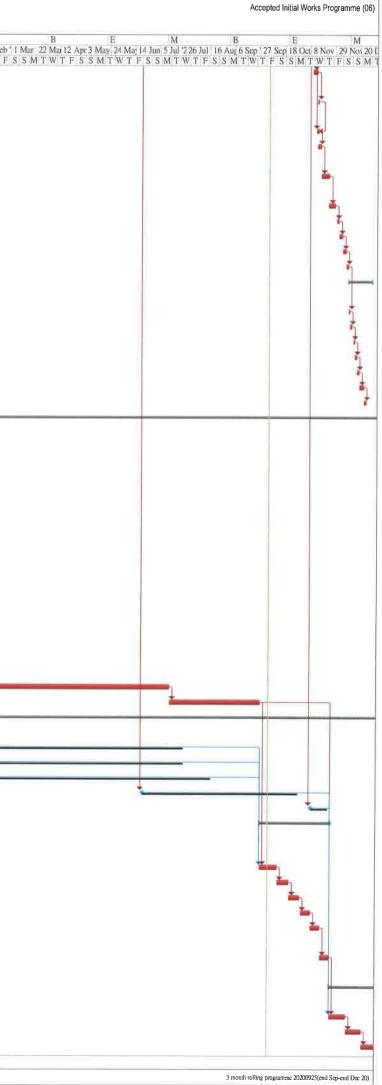
Contract No. C Development (- Infrastructura	of Columbarium at Sandy Ridge Cemetery I Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
D WBS	Task Name	Duration	Start Date	Completion Date	M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M B E M M B E M M B E M M B E M M B E M M B E M M B E M M B E M M B E M M B E M M B M B
925 17.3.26	Phase Ia (stage 104)-north Iane (chainage 685-740)	17 days	Thu 24/1/19	Fri 15/2/19	
934 17.3.27	Phase Ia (slage 105)-south lane (chainage 740-790)	24 days	Sat 16/2/19	Fri 15/3/19	
945 17,3,28	Phase Ia (stage 106) north Iane (chainage 740-790)	17 days	Sat 16/3/19	Thu 4/4/19	
955 17 3 29	Phase Ia stage 107)-south lane (chainage 790-840)	21 days	Sat 6/4/19	Sat 4/5/19	
966 17 3 30	Phase Ia (stage 108)-north Iane (chainage 790-840)		Mon 6/5/19	Mon 10/6/19	
976 17 3 31	Phase Ia (stage 109)-south lane (chainage 840-890)	31 days	Tue 11/6/19	Wed 17/7/19	
988 17.3.32	Phase Ia (stage 110)-north Iane (chainage 840-890)	-	Thu 18/7/19	Wed 7/8/19	
998 17.3.33	Phase III (stage 1)-south lane (chainage 435-490)	20 days	Thu 8/8/19	Fri 30/8/19	
1009 :17.3.34	Phase III (stage 2)-north lane (chainage 435-490)	16 days	Sat 31/8/19	Thu 19/9/19	
1019 17,3.35	Phase III (stage 3)-south lane (chainage 490-540)	34 days	Fri 20/9/19	Thu 31/10/19	
1030 17.3.36	Phase III (stage 4)-north lane (chainage 490-540)	17 days	Fri 8/11/19	Wed 27/11/19	9
1039 17.3.37	Phase III (stage 5)-south lane (chainage 540-590)	29 days	Thu 28/11/19		
1049 17.3.38	Phase III (stage 6)-north lane (chainage 540-590)	22 days	Sat 4/1/20	Sat 1/2/20	
1059 17.3.39	Phase III (stage 7)-south lane (chainage 590-633)	29 days	Tue 4/2/20	Sat 7/3/20	
1069 17.3.40	Phase III (stage 8)-north lane (chainage 590-633)	25 days	Mon 9/3/20 Wed 8/4/20	Tue 7/4/20 Sat 18/4/20	
1079 17.3.41	Street lighting (drawpits, abandon existing public lighting & cable, 100uPVC ducts) (ch435-890)	7 days	VVEU 0/4/20	3di 10/4/20	
1080 17.3.42	tree planting	5 days	Tue 14/4/20	Sat 18/4/20	
1081 17.3.43	Street furniture & construction of footpath (ch435-890)	23 days	Mon 20/4/20	Mon 18/5/20	0
1082 17.3.44	Phase IV (stage 1)-south lane (chainage 890-940)	22 days	Fri 20/9/19	Thu 17/10/19	9
1093 17.3.45	Phase IV (slage 2)-north lane (chainage 890-940)	17 days	Fri 18/10/19	Wed 6/11/19	9
1103 17,3,46	Phase IV (stage 3)-south lane (chainage 940-983)	31 days	Thu 7/11/19	Thu 12/12/19	9
1113 17.3.47	Phase IV (stage 4)-north lane (chainage 940-983)	16 days	Fri 13/12/19	Fri 3/1/20	
1122 17.3.48	Phase V (stage 1)-south lane (chainage 983-1035)	17 days	Sat 4/1/20	Thu 23/1/20	
1132 17.3.49	Phase V (stage 2)-north lane (chainage 983-1035)	16 days	Fri 24/1/20	Fri 14/2/20	
1141 17.3.50	Phase V (stage 3)-south lane (chainage 1035-1087)	19 days	Sat 15/2/20	Sat 7/3/20	
1151 17.3.51	Phase V (stage 4)-north lane (chainage 1035-1087)	12 days	Mon 9/3/20	Sat 21/3/20	
1160 17,3.52	Phase V (stage 5)-south lane (chainage 1087-1139)	20 days	Mon 23/3/20	Sat 18/4/20	
1170 17.3.53	Phase V (stage 6)-north lane (chainage 1087-1139)	15 days	Mon 20/4/20	Fri 8/5/20	
1171 17.3.53.1	TTA & UU detection	1 day	Mon 20/4/20	Mon 20/4/20	0
1172 17.3.53.2	saw cut & remove existing pavement	2 days	Tue 21/4/20		
1173 17.3.53.3	excavate gully trench and gully pot(s)	1 day	Thu 23/4/20	Thu 23/4/20	
1174 17.3.53.4	lay& connect gully pipes& construct gully pot(s)	2 days	Fri 24/4/20	Sat 25/4/20	
1175 17.3.53.5	lay kerb, sub-base	2 days	Mon 27/4/20		
1176 17.3 53.		3 days	Wed 29/4/20	Mon 4/5/20	
1177 17.3.53.7	DBM (Roadbase)	2 days	Tue 5/5/20	Wed 6/5/20	
1178 17.3.53.8	-	2 days	Thu 7/5/20	Fri 8/5/20	
1179 17.3.54	Phase V (stage 7)-south lane (chainage 1139-1190)	20 days	Sat 9/5/20	Mon 1/6/20	
1180 17,3.54.1	TTA & UU detection	1 day	Sat 9/5/20	Sal 9/5/20	
1181 17,3,54,2	saw cut & remove existing pavement	2 days	Mon 11/5/20		
1182 17.3.54.3	excavate pipe trench and manhole(s)	2 days	Wed 13/5/20	Thu 14/5/20	0
1183 17.3.54.4	lay pipes & construct manhole(s)	6 days	Fri 15/5/20	Thu 21/5/20	o
1104 47.2545		0 dava	Thu 21/5/20	Thu 21/5/20	
1184 17.3.54.5		0 days	Fri 22/5/20	Sat 23/5/20	
1185 17.3.54.6	, .	2 days	Mon 25/5/20	Wed 27/5/20	
1186 17.3.54		3 days	Thu 28/5/20		
1187 17.3.54.8	, , , , , , , , , , , , , , , , , , ,	2 days	Sat 30/5/20	Mon 1/6/20	
1188 17.3.54.9	•	2 days	Tue 2/6/20	Thu 18/6/20	
1189 17.3.55 1190 17.3.55.1	Phase V (stage 8)-north lane (chainage 1139-1190)		Tue 2/6/20	Tue 2/6/20	
1000 107		1 day	Wed 3/6/20	Thu 4/6/20	
1191 17.3.55.2		2 days	Fri 5/6/20	Fri 5/6/20	
1192 17.3.55.3		1 day 2 days	Sat 6/6/20	Mon 8/6/20	
1193 17.3.55.4 1194 17.3.55.4		2 days 2 days	Tue 9/6/20	Wed 10/6/20	
1194 17 3.55 3	.,	2 days 3 days	The 9/6/20 Thu 11/6/20	Sat 13/6/20	
1195 17.3.55		2 days	Mon 15/6/20		
1196 17.3.55.0		2 days 2 days	Wed 17/6/20		
1197 17.3.55.0	base course and wearing course Phase VI (stage 1)-south lane (chainage 1190-1240)		Fri 19/6/20	Wed 15/7/20	
1120 17.0.00	Filase vi (stage 1/-south lane (chainage 1130-1240)	, 210035	11110/0/20		
1199 17.3.56.	TTA & UU detection	1 day	Fri 19/6/20	Fri 19/6/20	
1200 17,3.56.	saw cut & remove exisling pavement	2 days	Sat 20/6/20	Mon 22/6/20	0
7255 1550			Tue 23/6/20	Wed 24/6/20	



No. Deck Deck <thdeck< th=""> <thdeck< th=""> <thdeck< th=""> Dec</thdeck<></thdeck<></thdeck<>	Devel - infra	opment structura	CV/2017/02 of Columbarium at Sandy Ridge Cemetery al Works at Man Kam To Road and Lin Ma Hang Road		-	0	3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
Image Image Image Image Image Image Image Ima	ID	WBS	Task Name	Duration	Start Date	Completion Date	Mai 10 Juni 1 Jul 12 Jul 12 Jul 12 Aug 2 Sen 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan 127 Jan 17 Feb 10 Mai 31 Mat 21 Ang 12 May 2 Jun 12 Jun 14 Jul 4 Aug 25 Aug 15 Sen 6 Oct 127 Oct 17 Nov 8 Dec 120 Dec 10 Jan 9 Feb
Bit Bit <th>1202</th> <th>17.3.56.4</th> <th>lay pipes & construct manhole(s)</th> <th>7 days</th> <th>Fri 26/6/20</th> <th></th> <th>W T F S S M T W</th>	1202	17.3.56.4	lay pipes & construct manhole(s)	7 days	Fri 26/6/20		W T F S S M T W
Diff 1 Abb Num Abb Abb Num Abb Num Abb Num Abb 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	1203	17.3.56.5	backfill formation & SRT test	0 davs	Sat 4/7/20	Sat 4/7/20	
100 101 102 <td>(TOSISC)</td> <td></td> <td></td> <td>-</td> <td></td> <td>Tue 7/7/20</td> <td></td>	(TOSISC)			-		Tue 7/7/20	
Diff Diff <thdiff< th=""> Diff Diff <thd< td=""><td>1205</td><td>17 3 56.</td><td>7 sub-base SRT test</td><td>3 days</td><td>Wed 8/7/20</td><td>Fri 10/7/20</td><td></td></thd<></thdiff<>	1205	17 3 56.	7 sub-base SRT test	3 days	Wed 8/7/20	Fri 10/7/20	
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	1206	17.3.56.8	DBM (Roadbase)	2 days	Sat 11/7/20	Mon 13/7/20	
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1000 1000 1000 100 100 100 100 1000 1000 1000 1000 100 100 1000	1207	17.3.56.9		-			
No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.<	1208	17.3.57	Phase VI (stage 2)-north lane (chainage 1190-1240)	15 days	Thu 16/7/20	Sat 1/8/20	
111 1111 1111 1111 1111 1111 1111 1111	1209	17.3.57.1	TTA & UU detection	1 day	Thu 16/7/20	Thu 16/7/20	
11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 11111 111111 111111 111111 11	1210	17.3.57.2	saw cut & remove existing pavement	2 days	Fri 17/7/20	Sat 18/7/20	
131 Trunk market use min 2 spin Trulk 131 Trunk market use min 2 spin Trulk 131 Trunk market use min 2 spin Trulk 131 Trunk market use min 2 spin Trulk Trulk 131 Trunk market use min 2 spin Trulk Trulk <td>1211</td> <td>17 3 57.3</td> <td></td> <td>1 day</td> <td></td> <td></td> <td></td>	1211	17 3 57.3		1 day			
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1315 1.2.7 Dyrife-base 2.4.8 Weider Weider Weider 1315 1.2.7 1.2.8 Proceent base 2.4.8 Weider 1.1.8.000 1315 1.2.8 Proceent base 1.2.8.000 1.1.8.000 1.1.8.000 1315 1.2.4 Offent base 1.2.8.000 1.1.8.000 1.1.8.000 1315 1.2.4 Offent base 1.2.8.000 1.1.8.000 1.1.8.000 1315 1.2.4 Offent base 1.2.8.000 1.1.8.000							
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190 71.42 New Mrg 0.496 Fe4.400 1915 Natabas see of a more an extra posenet 2 days Fe4.400 1915 Natabas see of a more an extra posenet 2 days Fe4.400 1915 Natabas see of a more an extra posenet 2 days Fe4.400 1915 Natabas see of a more an extra posenet 2 days Natabas Natabas 1915 Natabas sec of a more and posenet 2 days Natabas	1718	17 3 58 1		1 dav	Mon 3/8/20	Mon 3/8/20	
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Image: Second	1220	17.3.58.3	saw cut & remove existing pavement	2 days	Thu 13/8/20	Fri 14/8/20	
Image: Second Interaction Sections Second Interaction Sections Second Interaction Sections IDE 10.347 Signification Sections Significations Significations IDE 10.347 Significations Significations Significations IDE 10.347 Significations Significations Significations IDE 10.347 Significations Significations Significations IDE 10.348 DeV Significations Significations Significations IDE 10.347 Significations Significations Significations IDE 10.348 Dev Significations Significations Significations IDE 10.348 Significations Significations Significations IDE 10.348 Dev Significations	1221	17.3.58.4	excavate pipe trench and manhole(s)	2 days	Sat 15/8/20	Mon 17/8/20	
121 131.47 by whet, sub-costs 2 days The 19300 Web 20030 123 131.48 D394 (potatass) 2 days The 19300 Na 5000 123 131.48 D394 (potatass) 2 days Na 7500 The 5001 123 131.48 D394 (potatass) 2 days Na 7500 The 5001 123 131.48 D394 (potatass) 2 days Na 7500 The 5001 123 131.48 D394 (potatass) 2 days Na 7500 The 5001 123 131.48 Days (potatass) 2 days Na 7500 The 5001 123 131.48 Days (potatass) 2 days Na 7500 The 5001 123 132.48 days (potatass) 2 days Na 75000 The 5001 123 132.44 days (potatass) 2 days Na 75000 The 5000 123 123.45 about 5011 2 days Na 75000 The 50000 123 123.44 by dec. ub-5000 12 days Na 75000 The 510000 123 124.40 days of 14 formode 14 days for 10000	1222	17.3.58.5	ay pipes & construct manhole(s)	6 days	Tue 18/8/20	Mon 24/8/20	
121 121.44.1 ay when, ab-comes 2.40% Tu + 104.20 Wei 20000 122 123.48 DBM (Processing) 2.40% Nu / 790.00 1.49 660.00 122 123.48 DBM (Processing) 2.40% Nu / 790.00 1.49 660.00 123 124.49 DBM (Processing) 2.40% Nu / 790.00 1.49 660.00 123 124.49 DBM (Processing) 2.40% Nu / 790.00 1.49 660.00 123 124.49 DBM (Processing) 1.40% Fi11160.20 Nu / 790.00 123 124.49 DBM (Processing) 1.40% Fi11160.20 Nu / 790.00 123 124.49 DBM (Processing) 1.40% Nu / 790.00 Tu 11160.20 Nu / 790.00 123 124.49 DBM (Processing) S.419.000 Tu 1150.20 Nu / 190.00 Tu 1150.20 Nu / 190.00 124 124.49 DBM (Processing) S.419.000 Tu 1150.20 Nu / 190.00 S.4190.20 Nu / 190.00 125 124.49 DBM (Processing) S.419.000 Nu / 190.00 S.4190.00 S.4190.00 S.4190.00	1223	17.3.58.6	backfill formation & SRT lest	6 davs	Tue 25/8/20	Mon 31/8/20	
1212 1234 abbase ST led 3 dep To 5000 1237 1234 base came ard ware go yran 2 dep We 99902 To 1237 1234 base came ard ware go yran 2 dep We 99902 To 1237 1234 base came ard ware go yran 1 dep To No 1238 1234 base came ard ware go ware for go yran 1 dep No 1239 1234 rad ward for go ware for go yran 1 dep No 1230 1234 rad ward for go ware for go yran 1 dep No 1231 1234 rad ward for go ware for go yran 1 dep No 1232 1234 rad ward for go ware for go yran 1 dep No 1235 1234 rad ward for go ware for go yran 2 dep No 1236 1234 rad ward for go yran for go yran 2 dep No 1237 1238 rad ward for go yran for go yran 2 dep No 1238 rad ward for go yran for go yran 2 dep No No 1239 rad ward for go yran 2 dep No No 1239 rad ward for go yran 2 dep No No 1239 rad ward for g	10.000			-			
123 13.8 a. Superconstructions only acting pointer 2 app 104.90 123 13.8 a. Superconstructions only security (2004) 13.9 a. (1140) 104.90 123 13.8 a. Superconstructions (2004) 14.9 a. (1140) 111400 123 13.8 a. Superconstructions (2004) 14.9 a. (1140) 111400 123 13.8 a. Superconstructions (2004) 14.9 b. (11450) 111400 123 13.8 a. Superconstructions (2004) 14.9 b. (11450) 111400 123 13.8 a. Superconstructions (2004) 14.9 b. (11450) 119.900 123 13.8 a. Superconstructions (2004) 14.9 b. (11450) 119.900 124 13.8 a. Superconstructions (2004) 2.9 p. (11450) 119.900 125 13.8 a. Superconstructions (2014) 2.9 p. (11450) 119.900 126 13.8 a. Superconstructions (2014) 2.9 p. (11250) 112.9 P. (11250) 128 13.8 a. Superconstructions (2014) 2.9 p. (11250) 112.9 P. (11250) 128 13.8 a. Superconstructions (2014) 2.9 p. (11250) 112.9 P. (11250) 129 13.8 a. Superconstructions (2014) 2.9 p. (11250) 112.9 P. (11250) 129					Thu 3/9/20	Sat 5/9/20	
128 72.38 Pass of singer 6-cold large forwards 126/5 1281 15.02 67.03 128 72.83 TA A, UL desciden 15.99 F1.1020 M1.4000 128 72.84 tax cost 6 sprace esiding parents 2.69 S41.900 To 14.900 128 128.43 accored galy smd. and g. Arly cold; 1.99 F1.1020 To 14.900 128 128.45 in y best cold-size construct galy smd. and g. Arly cold; 1.19 To 14.900 To 14.900 128 128.45 in y best cold-size 2.69 F1.1900 To 14.900 128 128.45 in y best cold-size 2.69 F1.2900 To 14.900 129 128.45 19.340 15.2500 To 2.9000 To 2.9000 To 2.9000 129 128.45 To 4.81 19.900 Sta 14.8000 Sta 3.900 Sta 3.9000 129 128.45 To 4.81 19.900 Sta 3.9000 Sta 3.9000 Sta 3.9000 129 128.45 To 4.81 19.900 Sta 3.9000 Sta 3.9000 Sta 3.9000 129 128.40 To 4.810 Sta 4.90000 <td>1226</td> <td>17.3.58.9</td> <td>DBM (Roadbase)</td> <td>2 days</td> <td>Mon 7/9/20</td> <td>Tue 8/9/20</td> <td></td>	1226	17.3.58.9	DBM (Roadbase)	2 days	Mon 7/9/20	Tue 8/9/20	
1280 TA.4.0. TA.4.0.UpdepCon 1 up Fit 11960 1280 TA.4.4. Sim of A formwesting partial 2 ups 5 fit 11960 1281 TA.4.4. Sim of A formwesting partial 2 ups 1 fit 1960 1281 TA.4.6. Up deciment guily fit peed acrating guily (peed acrating	1227	17.3.58.	10 base course and wearing course	2 days	Wed 9/9/20	Thu 10/9/20	
1238 case of a strength existing payment 2009 Suit 1920 1238 cargenite giv/y mech and cu/p policy 1009 1017200 1017800 1238 say document cu/p policy 2009 Weit 16020 1017800 1238 say document cu/p policy 2009 Weit 16020 1017800 1238 say document cu/p policy 2009 Thi 178200 1017800 1238 say document cu/p policy 2009 Thi 178200 1017800 1238 say document cu/p policy 2009 Thi 178200 1017800 1238 say document cu/p policy 2009 Thi 178200 1017800 1238 say document cu/p policy 2009 Thi 178200 Thi 178200 1238 say document cu/p policy 2009 Thi 178200 Thi 178200 1238 say document subject courts 2009 Thi 178200 Thi 178200 1238 say document subject courts 2009 Thi 178200 Thi 178200 1238 say document subject courts 2009 Thi 178200 Thi 178200 1238 say document subject courts 1009 <td>1228</td> <td>17.3.59</td> <td>Phase VI (stage 4)-north lane (chainage 1240-1286)</td> <td>15 days</td> <td>Fri 11/9/20</td> <td></td> <td></td>	1228	17.3.59	Phase VI (stage 4)-north lane (chainage 1240-1286)	15 days	Fri 11/9/20		
121 112343.1 excents guly mechanics guly problem 1 org Tue 15920 122 11234.1 layd connect guly problem 2 days Wei 25920 122 11234.1 layd connect guly problem 2 days Wei 25920 123 11234.1 layd connect guly problem 2 days Wei 25920 123 11234.1 Bob Receives 2 days Wei 25920 123 11234.1 Layd connect guly problem 2 days Wei 25920 123 11234.1 Layd connect guly problem 2 days Mei 25920 123 11234.1 Layd connect guly problem 2 days Mei 25920 123 11234.1 Layd connect guly problem 2 days Mei 25920 124 1124.1 Layd connect guly problem 2 days Mei 25920 124 1124.1 Layd connect guly problem 1 days Tue 25920 Tue 25920 124 1124.1 Layd connect guly problem Layd connect guly problem 1 days Tue 25920 124 1124.1 Layd connect guly problem Layd connect guly problem Layd connect guly problem Lay	1.75552350	-					
122 173.84 by/ convertig up/ ppipes construct guly popel 2.099 Wed 169000 123 173.85 bay/ bots, sub-base 2.099 FF 18900 St 19900 123 173.86 mb-base ST 1ast 3.099 Hms 21900 FF 25800 123 173.87 Dbth (Foatbase) 2.099 Ext 20000 FF 25800 123 173.86 base outs and weeting outs 2.099 Ext 20000 FF 25800 123 173.86 Dbth (Foatbase) 2.099 Tru 248020 FF 25800 123 173.86 Dbsta outs and weeting outs 2.099 Tru 248020 FF 25800 123 173.86 Saw cul 4 formous existing participation and machale(1) 2.099 Tru 248020 Tru 248020 124 173.86 absdt formation & SFT tost 0.099 Tru 248020 Tru 1611020 124 173.86 basedt formation & SFT tost 0.099 Tru 161020 Tru 161020 124 173.86 basedt formation & SFT tost 0.099 Wed 2470020 Wed 2470020 124 173.86 Dbsta formation & SFT tost 0.099 Wed 2470020 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
123 17.3.8.4 by Norb. Sub-Base 2.0.9 Fr1 199.00 123 17.3.9.6 aub-base SRT limit 3.0.9 Mar. 21/0.90 123 17.3.9.6 aub-base SRT limit 3.0.9 Mar. 21/0.90 124 17.3.9.6 Base Course and weining course 2.0.9 S.8.269.00 124 17.3.9.6 Base Course and weining course 2.0.9 S.8.269.00 125 17.3.9.7 Phane VI (ingling S)-south lame (chainage 126:1332) O.0.9 Tue 2380.00 125 17.3.9.7 app. Additional (Chainage 126:1332) O.0.9 Tue 2380.00 126 17.3.9.7 app. Additional (Chainage 126:1332) O.0.9 Tue 2380.00 126 17.3.9.7 app. Additional (Chainage 126:1332) O.0.9 Tue 2380.00 126 17.3.9.7 app. Additional (Chainage 126:1332) O.0.9 Tue 2380.00 1261 17.3.9.7 aub-base String and Main (Chainage 126:1332) O.0.9 Tue 1910.00 1264 17.3.9.7 aub-base String and Main (Chainage 126:132) Tue 1910.00 Tue 1910.00 1264 17.3.8.0 Base (Chainage 126:132) O.0.9 T	1.1.1.2211		• • • • • • • • •				
124 17.23.66 auchean ShT test 3.deg Mon 243000 125 17.23.87 DBM (Nauchean) 2.degs Fil 25800 125 17.23.87 DBM (Nauchean) 2.degs S.42.6020 125 17.23.87 Phase Vil stage S) south time (ninninge 1285-132) 2.degs Tite 2.9800 125 17.24.81 Tite A. Ul detection 1.deg Tite 2.9800 Tite 2.9800 126 17.24.81 Tite A. Ul detection 1.deg Tite 2.9800 Tite 2.9800 126 17.24.81 Tite A. Ul detection 1.deg Tite 2.9800 Tite 2.9800 1264 17.34.61 tay pipes & construct mainfold(s) 2.degs Mon 19920 Tite 1.9800 1247 17.34.61 tay pipes & construct mainfold(s) 8.degs Mon 19920 Tite 1.9800 1247 17.34.64 tay pipes & construct mainfold(s) 8.degs Mon 19920 Tite 1.9800 1247 17.34.64 backfil formation & SRT test 0.degs Tite 1.97000 Tite 2.97000 1247 17.34.8 DBM (Foodham) 2.degs Staf 2.470020 Staf 2.470020 <t< td=""><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>112-11</td><td></td><td>-</td><td></td><td></td><td></td></t<>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	112-11		-			
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126 73.98 base course and weening course 2 days Sal 799200 127 73.30 Phase V (stage 5)-cour hare (chamge 1285-1332) 20 days Tri 231028 128 173.84.1 TA & UU detection 1 day Tre 231920 Fri 231028 129 173.84.2 Save 0.14 more sedding parement 2 days Mon 510.02 Tre 231920 129 173.84.3 accorate pipe trench and manhold(s) 2 days Mon 510.02 Tre 610.020 1241 173.84.4 apy pipes & construct manhold(s) 2 days Mon 510.02 Tre 610.020 1245 173.84.5 backfil formation & SPT test 0 days Tre 610.020 1245 173.84.5 backfil formation & SPT test 0 days Tre 610.020 1246 1248 173.84.5 backfil formation & SPT test 0 days Tre 610.020 1246 173.84.5 base course and weening course 2 days Mon 510.020 Fri 2310.020 1247 173.84 Babase course and weening course 2 days Tre 2140.020 Fri 2310.020 1248 173.84 Babase course and weening course 2 days	()U			-			
1237 7.860 Phase VI (stage 5)-south lane (challange 128-1332) 20 days Fu 234920 Fu 234920 1238 17.3.6.1 TTA & UU detection 1 day Tu 239202 Tu 239202 Tu 239202 1239 17.3.6.2 sax out & remove existing pavement 2 days Wein 50020 Sat 31020 1240 17.3.6.4 lay pipes & construct marchole(s) 5 days Wein 70100 Tu 310102 1241 17.3.6.4 lay pipes & construct marchole(s) 5 days Wein 70102 Tu 510102 1247 17.3.6.4 lay pipes & construct marchole(s) 5 days Wein 701020 Tu 510102 1248 17.3.6.4 lay pipes & construct marchole(s) 5 days Wein 71020 Tu 510102 1247 17.3.6.4 lay bes & construct marchole(s) 5 days Wein 71020 Tu 510102 1248 17.4.6.8.4 lay kein sub-base 2 days Wein 71020 Tu 510102 1246 17.3.6.8.4 lay kein sub-base 2 days Fui 120020 Fil 3201020 1246 17.3.6.8.4 sub-base SRT test 3 days Fil 201020 Fil 3201020		Discourse a	•				
129 17.80.2 saw out & ramove existing pavement, ramonicity 2 day Wed 30/9/20 Sal 3/10/20 1241 17.80.4 lay pipes & construct manhole(s) 6 day Wed 7/10/20 Tue 6/10/20 1241 17.80.4 lay pipes & construct manhole(s) 6 day Wed 7/10/20 Tue 13/10/20 1242 17.80.5 backill formation & SRT test 0 days Tue 13/10/20 Tue 13/10/20 1243 17.80.6 lay kerb, sub-base 2 days Wed 14/10/20 Tu 15/10/20 1244 17.80.7 sub-base SRT test 3 days Fit 18/10/20 Wed 14/10/20 1245 17.80.8 Backill formation & SRT test 3 days Fit 18/10/20 Wed 14/10/20 1245 17.80.8 Backill formation & SRT test 3 days Fit 18/10/20 Wed 14/10/20 1246 17.80.8 Backill formation & SRT test 3 days Tit 8/10/20 Sat 24/10/20 1247 17.81 Phase V (stage 6) - north lane (chainage 1285 12 days Sat 24/10/20 Sat 24/10/20 1249 17.81 Trak LU delection 1 day Sat 24/10/20 Sat 24/10/20	1237	17.3.60	Phase VI (stage 5)-south lane (chainage 1286-1332)	20 days	Tue 29/9/20	Fri 23/10/20	
129 17.80.2 saw out & ramove existing pavement, ramonicity 2 day Wed 30/9/20 Sal 3/10/20 1241 17.80.4 lay pipes & construct manhole(s) 6 day Wed 7/10/20 Tue 6/10/20 1241 17.80.4 lay pipes & construct manhole(s) 6 day Wed 7/10/20 Tue 13/10/20 1242 17.80.5 backill formation & SRT test 0 days Tue 13/10/20 Tue 13/10/20 1243 17.80.6 lay kerb, sub-base 2 days Wed 14/10/20 Tu 15/10/20 1244 17.80.7 sub-base SRT test 3 days Fit 18/10/20 Wed 14/10/20 1245 17.80.8 Backill formation & SRT test 3 days Fit 18/10/20 Wed 14/10/20 1245 17.80.8 Backill formation & SRT test 3 days Fit 18/10/20 Wed 14/10/20 1246 17.80.8 Backill formation & SRT test 3 days Tit 8/10/20 Sat 24/10/20 1247 17.81 Phase V (stage 6) - north lane (chainage 1285 12 days Sat 24/10/20 Sat 24/10/20 1249 17.81 Trak LU delection 1 day Sat 24/10/20 Sat 24/10/20	1238	17.3.60	TTA & III I detection	1 dav	Tue 29/9/20	Tue 29/9/20	
1240 17.8.8.3 excavale pipe trench and mathole(s) 2 days Mon 5/10/20 Tue 6/10/20 1241 17.8.8.4 lay pipes & construct mathole(s) 6 days Wed 7/10/20 Tue 13/10/20 1241 17.8.8.4 lay pipes & construct mathole(s) 6 days Wed 7/10/20 Tue 13/10/20 1242 17.8.6.5 backfil formation & SRT test 0 days Wed 17/10/20 Tue 13/10/20 1244 17.8.6.7 sub-base SRT test 3 days Fil 16/10/20 Med 17/10/20 1245 17.8.6.8 DBM (Roadbase) 2 days Wed 21/10/20 1246 17.8.6.8 DBM (Roadbase) 2 days Sat 24/10/20 1247 17.8.1 ThA & U/ detection 1 day Sat 24/10/20 1249 17.8.1 ThA & U/ detection 1 day Sat 24/10/20 1249 17.8.1.1 Sat value 2 days Tue 2/11/20 1250 17.8.1.1 Sat value 2 days Tue 2/11/20 1251 17.8.1.1 Sat value 2 days Tue 2/11/20 1252 17.8.1.1 Sat value 2 days Tue 2/11/20 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1242 17.3.80.5 backfill formation & SRT test 0 days Tue 13/10/20 1243 17.3.80.6 lay kerb, sub-bases 2 days Wei 14/10/20 Thu 15/10/20 1244 17.3.80.7 sub-bases SRT test 3 days Fri 16/10/20 Mon 19/10/20 1245 17.3.80.8 DBM (Roadbase) 2 days Tue 20/10/20 Wei 21/10/20 1245 17.3.80.8 DBM (Roadbase) 2 days Tu 21/10/20 Fri 23/10/20 1246 17.3.80.8 DBM (Roadbase) 2 days Tu 21/10/20 Fri 23/10/20 1246 17.3.81 Phase vI (stage 6) - north lane (chainage 1286 12 days Sat 24/10/20 Sat 24/10/20 1248 17.3.81.1 TTA & UJ detection 1 day Sat 24/10/20 Sat 24/10/20 1250 17.3.81.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1251 17.3.81.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1252 17.3.81.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1252 17.3.81.5 DBM (Roadbase) 2 days							
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1243 17.3.60 lay kerb, sub-bases 2 days Wed 14/10/20 Thu 15/10/20 1244 17.3.60.7 sub-bases SRT test 3 days Fri 16/10/20 Mon 19/10/20 1245 17.3.60.8 DBM (Rodbase) 2 days Tue 20/10/20 Wed 31/10/20 1245 17.3.60.9 Dase course and wearing course 2 days Tue 20/10/20 Fri 23/10/20 1246 17.3.61 TTA & Uldection 1 day Sat 24/10/20 Sat 24/10/20 1249 7.3.61.1 TTA & Uldection 1 day Sat 24/10/20 Sat 24/10/20 1250 17.3.61.4 Sub-base SRT test 3 days Sat 24/10/20 Fri 30/10/20 1250 17.3.61.4 sub-base SRT test 3 days Sat 31/10/20 Fri 30/10/20 1252 17.3.61.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1252 17.3.61.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1252 17.3.61.4 sub-base SRT test 3 days Sat 31/10/20 Tue 31/120 1253 17.3.61.4 base course and wearing course 2 da	10/0	47.0.00		0 dovo	Tuo 12/10/20	Tuo 12/10/20	
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		- 1					
1255 17.3.62.1 TTA & UU detection 1 day Mon 9/11/20 Mon 9/11/20	1254	17.3.62	Phase VI (stage 7)-south lane (chainage 1332-1377)	27 days	Mon 9/11/20	Wed 9/12/20	
	1255	17.3.62	1 TTA & UU detection	1 day	Mon 9/11/20	Mon 9/11/20	



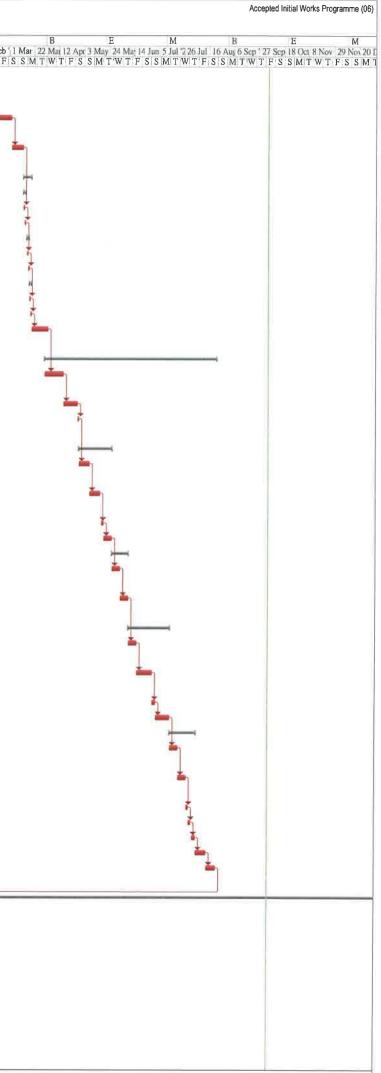
Develo	proment	CV/2017/02 of Columbarium at Sandy Ridge Cemetery ral Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
	WBS	Task Name	Duration	Start Date	Completion Date	M B E M B E M B E M May 10 Juni 1 Juli 122 Juli 12 Aug 2 Sep 12 Oct 4 Nov 25 Nov 16 Dec 6 Jan 127 Jan 17 Feb 10 Mat 31 Mat 21 Apr 12 Mat 2 Juni 12 Juni 12 Juni 12 Sep 6 Oct 127 Oct 17 Nov 8 Dec 129 Dec 19 Jan 19 Feb 10 Mat 31 Mat 21 Apr 12 Mat 2 Juni 12 Juni 12 Juni 12 Sep 6 Oct 127 Oct 17 Nov 8 Dec 129 Dec 19 Jan 19 Feb 10 Mat 31 Mat 21 Apr 12 Mat 2 Juni 12 Juni 12 Juni 12 Juni 12 Juni 12 Juni 12 Mat 2
						May 10 Jun 1 Jun 122 Jun 12 Aug 2 Sep 2 Sep 14 Oct 4 Nov 25 Nov 16 Dec 5 Jan 27 Jan 17 Feb 10 Mai 31 Mai 21 Apr 12 Mai 2 Jun 14 Jun 4 Aug 25 Aug 15 Sep 6 Oct 27 Oct 17 Nov 8 Dec 7 29 Dec 19 Jan 9 Feb 7 W T F S S M T W T F S S
1256	17.3.62.2	2 tree felling	4 days	Tue 10/11/20	Fri 13/11/20	
1257	17.3.62	3 tree transplant	1 day	Sat 14/11/20	Sat 14/11/20	
1258	17.3.62.4	4 saw cut & remove existing pavement	2 days	Fri 13/11/20	Sat 14/11/20	
	17 3 62		2 days	Sat 14/11/20		
1260	17.3.62.0	6 lay pipes & construct manhole(s)	6 days	Tue 17/11/20	Mon 23/11/20	
10(1	47.0.00		6 daya	Mon 23/11/20	Cot 29/11/20	
	17.3 62 17.3 62.1			Mon 30/11/20		
	17 3 62	.,	3 days	Wed 2/12/20	Fri 4/12/20	
	17 3,62.		2 days	Sat 5/12/20	Mon 7/12/20	
1265	17 3 62	11 base course and wearing course	2 days	Tue 8/12/20	Wed 9/12/20	
1266	17.3.63	Phase VI (stage 8)-north lane (chainage 1332-1377)	15 days	Thu 10/12/20	Tue 29/12/20	
1267	17.3.63	1 TTA & UU detection	1 day	Thu 10/12/20	Thu 10/12/20	
1268	17 3 63.	2 saw cut & remove existing pavement	2 days	Fri 11/12/20	Sat 12/12/20	
1269	17 3 63.	3 excavate gully trench and gully pol(s)	1 day	Mon 14/12/20		
a service of a	17.3.63	, , , , , , , , , , , , , , , , , , , ,				
1271	17 3 63			Thu 17/12/20		
	17 3 63		3 days		Tue 22/12/20	
1273	17 3 63. 17 4	7 DBM (Roadbase) Noise Barrier works above the concrete substructure of the noise barrier (section 2 Part C1)		Wed 23/12/20 Mon 29/10/18		
1000			010 dour	Map 20/10/19	Cup 26/5/10	
The second second	17.4.1 17.4.2	seek specialist subcontractor to design and build propose specialist subcontractor to PM for acceptance	•	Mon 29/10/18 Sun 26/5/19		
1281	17.4.3	acceptance of propose specialist subcontractor by Project Manager	0 days	Sun 16/6/19	Sun 16/6/19	
1282	17.4.4	prepare design & liaise with designer & PM	120 days	Mon 17/6/19	Mon 14/10/19	
1283	17.4.5	submit a proposal detailing the changes to PM's design, if any	14 days	Tue 15/10/19	Mon 28/10/19	9
1284	17.4.6	submit 1st design for PM's comment		Mon 28/10/19		
1.	17.4.7	PM's comments		Tue 29/10/19		
0.1111122	17.4.8	revise design	-	Tue 19/11/19		
12004	17.4.9 17.4.10	re-submit design for PM's acceptance submit 3 sample panels for each type & colour for acceptance	•	Mon 16/12/19 Tue 17/12/19		
1289	17.4.11	PM's & relevant authorities' acceptance	0 days	Mon 13/1/20	Mon 13/1/20	
1290	17.4.12	ordering of noise barrier panel	0 days	Wed 15/1/20	Wed 15/1/20	
1291	17 4 13	fabricating of panel and steelworks	180 days	Thu 16/1/20	Mon 13/7/20	
1292	17.4.14	delivery of panel and steelworks on site		Tue 14/7/20		
1293	17.4.15	completion of concrete curing of substructure of Nosie Barriers		Mon 14/10/19		
111522-527	17 4 15			Mon 14/10/19		
	17.4.15			Mon 14/10/19		
10000000	17.4.15		0 days			
THE REPORT	17.4.15		0 days 0 days		Sun 21/6/20 Mon 9/11/20	
100110.0000	17.4.15 17.4.16					
1302	17.4.16	fix posts with base plates to copings		Mon 28/9/20		
1303	17.4.16		9 days	Tue 13/10/20		
	17.4.16		7 days			
	17.4.16		7 days			
1306	17.4.16	5.5 fix copping the end of UC member	7 days	Tue 10/11/20	Tue 17/11/20	
1307	17.4.16		,	Wed 18/11/20		
	17.4.17	of the noise barrier MM10 (app. 94m)				
	17.4.17			Thu 26/11/20		
	17.4.17			Thu 10/12/20		
1311	17.4.17	7.3 fix AL absorption noise barrier panels	8 days	Wed 23/12/20	IVION 4/1/21	



velon	No. CV/20 ment of Co ructural Wo	17/02 lumbarium at Sandy Ridge Cemetery rks at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
			Duration	Start Date	Completion Date M	M B E M B E M B E M B E M B E M A B B B B M B B B B M B B M B M B B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B B M B M B M B B M B M B B M B M B M B B M B M B B M B M B M B B M B M B M B B M B M B M B M B B M
3 17		access date for section 2 (Part C2) additional site possession for areas outside site	0 days 0 days		Sun 24/2/19 Sun 24/2/19	
		ooundary (for 3NW-CIC470 (existing D-DH7), C224 existing D-DH11) & C225 new drillholes DHA1,A2 & A3 }				
17	7_7	Slope Upgrading works (section 2 Part C2)	578 days	Mon 25/2/19	Wed 3/2/21	
	7.1	9			Thu 18/4/19	
.7.				Thu 11/4/19	Sat 8/6/19	
.7.3 7.4				Wed 22/5/19 Mon 17/6/19	Sat 15/6/19 Thu 11/7/19	
1	.4	drilling of verification boreholes DHA1,A2 & A3	21 udys	WOIT THOM'S	ing initio	
7	.5	baseline monitoring for 3NW-C/C230 (DH15 & 16) & C225 (DH3 & 17) on existing drillholes & 3NW-C/C470 (existing D-DH7), C224 (existing D-DH11) & C225 proposed verification drillholes DHA1,A2 & A3	30 days	Fri 12/7/19	Thu 15/8/19	
	7.6	submit 4 sets of initial readings of baseline monitoring and preliminary logs to the Project Manager to the Project Manager	0 days	Thu 15/8/19	Thu 15/8/19	
17	7.7.7	Slopeworks: 3NW-C/C470 (ch490-540S/B)	59 days	Fri 16/8/19	Sat 26/10/19	
	.7.7.1	removal of existing trees	10 days	Fri 16/8/19	Tue 27/8/19	→_
1	7.7.7.2	hoarding & fencing	6 days	Wed 28/8/19	Tue 3/9/19	
	7773	slope excavation works	1 day	Wed 4/9/19	Wed 4/9/19	r t
7	774	temporary scaffolding	5 days	Thu 5/9/19	Tue 10/9/19	
,	775		8 days	Wed 11/9/19		
	7.7.7.6	Phase I	8 days	Sat 21/9/19	Mon 30/9/19	
7	.7.7.6.1	install test nail PN02 & pull out test	6 days	Sat 21/9/19	Fri 27/9/19	
	7.7.7.6.2	drill, install steel bars and grout soil nails (B01-12)	2 days	Sat 28/9/19	Mon 30/9/19	
	7.7.7 7.7.7.1	Phase II install test nail PN01 & pull out test	•	Wed 2/10/19 Wed 2/10/19		
1.1	1-1-1	install test hall PNOT & pull out test	0 udys	WGG 2/10/13	W60 0/10/10	
7.	7.7.7.2	drill, install steel bars and grout soil nails (A01-17)	2 days	Thu 10/10/19	Fri 11/10/19	, and the second se
	7.7.8	raking drains	1 day	Sat 12/10/19		1
	7.7.7.9	TDR Test (including test & wait issue result)		Mon 14/10/19		
	7.7.7.10	soil nail head works	-	Wed 16/10/19		
	7,7.7.11	UC & catchpit (38m & 1 nr)	,	Sat 19/10/19 Fri 25/10/19		
	7.7.7.12	biodegradable erosion control mat with hydroseeding	2 days	FII 20/10/19	3at 20/ 10/ 19	
1	17,7.8	Slopeworks: - 3NW-C/C230 (ch1240-1330S/B)	130 days	Mon 28/10/19	Thu 2/4/20	
1	17.7.8.1	removal of existing trees	10 days	Mon 28/10/19	Thu 7/11/19	
1	17.7.8.2	hoarding & fencing	9 days	Fri 8/11/19	Mon 18/11/19	
	17.7.8.3	temporary scaffolding	7 davs	Tue 19/11/19	Tue 26/11/19	
	17.7.8.4	proposed slope stripping for mapping or rock and relict discontinuities (AS3-A,B, AS4-A,B)	,	Wed 27/11/19		
1	17.7.8.5	slope excavation works	1 day	Fri 6/12/19	Fri 6/12/19	r t
-1	17 7.8.6	Phase 1	25 days		Wed 8/1/20	
	17,7.8.6.1	install test nail PN22 & pull out test	6 days	Sat 7/12/19	Fri 13/12/19	
	17,7.8.6.2	drill, install steel bars and grout soil nails (K01-22, N01-05, M01-11, J01-25)	10 days	Sat 14/12/19	Fri 27/12/19	
	17.7.8.6.3	TDR Test (including test & wait issue result)	-	Sat 28/12/19		
1	17.7.8.6.4	soil nail head works	7 days			
i	17.7.8.7	Phase II	22 days		Thu 6/2/20	
	17.7.8.7.1	install test nail PN21 & pull out test	6 days	Thu 9/1/20	Wed 15/1/20	
,	17.7.8.7.2	drill, install steel bars and grout soil nails (H01-25, L01-16)	8 days	Thu 16/1/20	Fri 24/1/20	

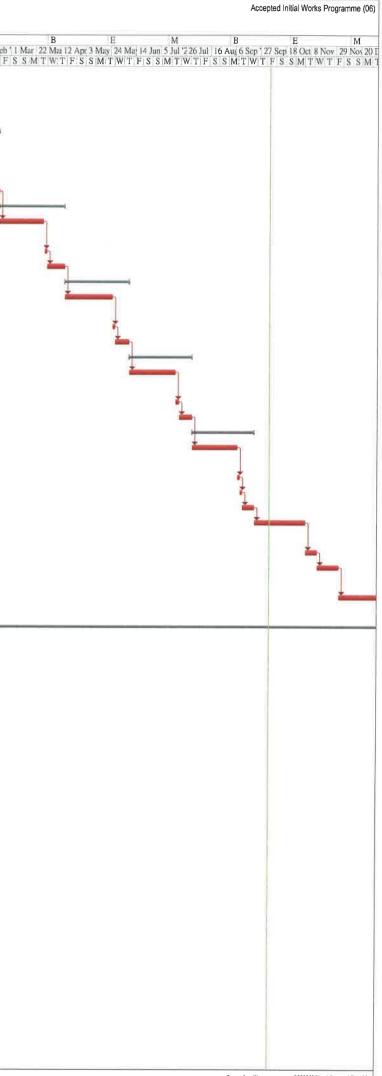
	Accepted Initial Works Programme (06)
B E More 22 May 12 Arm 2 May 14 June 5 Lat 12 26 Lat 14 6	B E M
B E M I 5' 1 Mar 22 Mai 12 Apr 3 May 24 Ma; 14 Jun 5 Jul 26 Jul 16 Aug 7 S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S	1 T W T F S S M T W T F S S M T

velonment	CV/2017/02 t of Columbarium at Sandy Ridge Cemetery ral Works at Man Kam To Road and Lin Ma Hang Roa	ad			3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
WBS		Duration	Start Date	Completion Date	Ma: 10 Jun 1 Jul 1 22 Jul 12 Aug 2 Sep 123 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan 27 Jan 17 Feb 10 Mar 31 Mar 21 Apr 12 Mar 2 Jun 23 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct 27 Oct 17 Nov 8 Dec 29 Dec 19 Jan
63 17.7 8 7	.3 raking drains	2 days	Wed 29/1/20	Thu 30/1/20	W T F S S M T W
64 17 7.8.7	C C	2 days	Fri 31/1/20	Sat 1/2/20	
65 17 7 8.7.		4 days	Mon 3/2/20	Thu 6/2/20	
66 17.7.8 B		21 days	Fri 7/2/20	Mon 2/3/20	0
67 17.7.8.9	600mm width concrete maintenance staircase with handrailing	9 days	Tue 3/3/20	Thu 12/3/20	20
68 17.7.8 1	10 soil replacement by no-fines concrete	6 days	Fri 13/3/20	Thu 19/3/20	20
69 17 7.8 1	10,1 stage 1	2 days	Fri 13/3/20	Sat 14/3/20	.0
70 17.7.8 1	10.1.1 temporary cut & excavation of soil	1 day	Fri 13/3/20	Fri 13/3/20	0
371 17.7.8.1	10.1.2 placement of no-fine concrete	1 day	Sat 14/3/20	Sat 14/3/20	
372 17.7.8.1	10.2 stage 2	2 days	Mon 16/3/20	Tue 17/3/20	
17.7.8 1	10.2.1 temporary cut & excavation of soil	1 day	Mon 16/3/20	Mon 16/3/20	20
374 17 7.8.1	10.2.2 placement of no-fine concrete	1 day	Tue 17/3/20	Tue 17/3/20	
375 17.7 8 1	10.3 stage 3	2 days	Wed 18/3/20	Thu 19/3/20	20
376 17.7.8.1	10.3.4 temporary cut & excavation of soil	1 day	Wed 18/3/20	Wed 18/3/20	20
377 17.7.8.1	10.3.2 placement of no-fine concrete	1 day	Thu 19/3/20	Thu 19/3/20	
378 17.7.8.1	hydroseeding & shrub planting	12 days	Fri 20/3/20	Thu 2/4/20	
379 17.7.9		•	Tue 31/3/20	Sat 22/8/20	
380 17,7.9.1	hoarding & fencing	10 days	Tue 31/3/20	Wed 15/4/20	20
		10 down	Thu 16/4/20	Mon 27/4/20	20
381 17.7.9.2	, ,	10 days 1 day	Tue 28/4/20	Tue 28/4/20	
382 17.7.9.3	3 slope excavation works	Tudy	106 2014/20	100 2014/20	
383 17.7.9.4	4 Phase I	22 days	Wed 29/4/20	Tue 26/5/20	20
184 17.7.9.4		-	Wed 29/4/20	Thu 7/5/20	
385 17.7.9.4	4.2 drill, install steel bars and grout soll nails (G01-21, F01-31)	8 days	Fri 8/5/20	Sat 16/5/20	20
386 17.7.9.4		2 days	Mon 18/5/20	Tue 19/5/20	20
387 17.7.9.4		,	Wed 20/5/20	Tue 26/5/20	
388 :17.7.9.5			Wed 27/5/20	Tue 9/6/20	
389 17.7.9.5			Wed 27/5/20		
390 17.7.9.	drill, install steel bars and grout soil nails (E01-46)	6 days	Wed 3/6/20	Tue 9/6/20	40
391 17.7.9.0	6 Phase III	28 days	Wed 10/6/20	Tue 14/7/20	20
192 17.7.9.6	6.1 install test nail PN12 & pull out test	6 days	Wed 10/6/20	Tue 16/6/20	20
17.7.9	6.2 drill, install steel bars and grout soil nails (D01-D51)	10 days	Wed 17/6/20	Mon 29/6/20	20
394 17.7.9.	.6.3 TDR Test (including test & wait issue result)	2 days	Tue 30/6/20	Thu 2/7/20	20
395 17.7.9.		10 days	Fri 3/7/20	Tue 14/7/20	
396 17.7.9.		19 days			
397 17.7.9.		•	Wed 15/7/20		
398 17,7.9.	.7.2 drill, install steel bars and grout soil nails (C01-26)	6 days	Wed 22/7/20	Tue 28/7/20	20
399 17.7.9.	.7.3 raking drains	2 days	Wed 29/7/20	Thu 30/7/20	20
100 17.7.9.		2 days	Fri 31/7/20	Sat 1/8/20	.0
401 17.7.9.		3 days	Mon 3/8/20	Wed 5/8/20	20
402 17.7.9.		8 days	Thu 6/8/20	Fri 14/8/20	
403 17.7.9.			Sat 15/8/20	Sat 22/8/20	20
404 47 7 4	, ,	2/A down	Tue 3/12/19	Wed 3/2/21	21
404 17.7.10 405 17.7.10		2 days			
1406 17.7.1	0.2 removal of existing trees	5 days	Thu 5/12/19	Tue 10/12/1	2/19
1407 17.7.1	0.3 hoarding & fencing	12 days	Wed 11/12/19	Tue 24/12/1	/19
1408 17.7.1	10.4 slope excavation works	1 day	Fri 27/12/19	Fri 27/12/19	19 T
1409 17.7.1	····F···)		Sat 28/12/19		
410 17.7.1	10.6 install test nail PN31-PN33, grout & pull out test	sts 6 days	Fri 10/1/20	Thu 16/1/20	/20

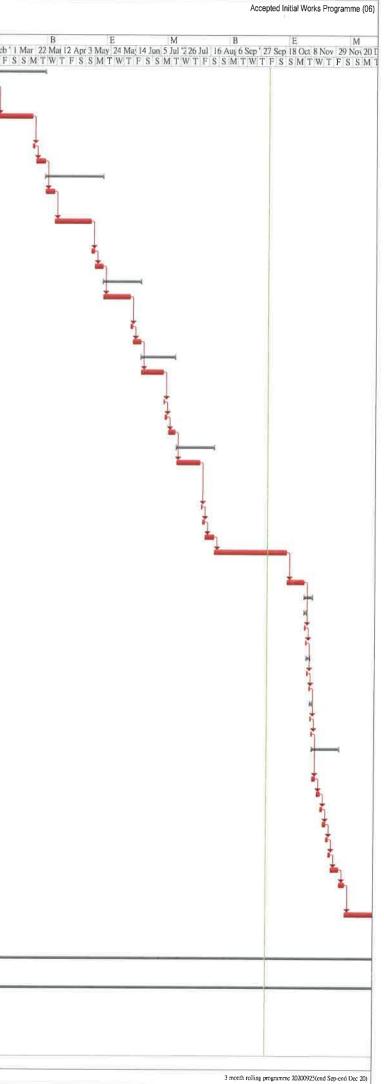


Develo	act No. CV/20 opment of Co structural Wo	of 7/02 Jumbarium at Sandy Ridge Cemetery orks at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
)	WBS Ta	sk Name	Duration	Start Date	Completion Date	M B E M B E M B E Image: Margin 1 Jul '1 22 Jul '12 Aug 2 Sep '23 Sep 14 Oct 4 Nov '25 Nov 16 Dec 6 Jan' 27 Jan 17 Feb 10 Mar 31 Mar 21 Apr 12 Mar 2 Jun' 23 Jun '14 Jul '4 Aug 25 Aug 15 Sep 6 Oct '27 Oct 17 Nov 8 Dec '29 Dec 19 Jan 9
411	17.7.10.7	install test nail PN34-PN36, grout & pull out tests	6 days	Fri 17/1/20	Thu 23/1/20	WTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSMTWTFSSM
1412	17.7.10.8	install test nail PN37-PN39, grout & pull out tests	6 days	Fri 24/1/20	Mon 3/2/20	
1412	17.7.10.9	Dhana I	15 days	Tue 4/2/20	Thu 20/2/20	
	17.7.10.9.1	Phase I drill, install steel bars and grout soil nails	8 days	Tue 4/2/20	Wed 12/2/20	
00000	10030/02.24	(AJ01-18, Y01-07, AH01-18, X01-08)				
	17.7.10.9.2	TDR Test (including test & wait issue result)	2 days	Thu 13/2/20	Fri 14/2/20	
	17.7.10.9.3	soil nail head works	5 days	Sat 15/2/20	Thu 20/2/20	
	17 7 10.10 17 7 10.10 1	Phase II drill, install steel bars and grout soil nails (AJ01-18, Y01-07, AH01-18, X01-08)	43 days 32 days		Wed 15/4/20 Sat 28/3/20	
1419	17 7 10.10.2	TDR Test (including test & wait issue result)	2 days	Mon 30/3/20	Tue 31/3/20	
	17.7.10.10.3	soil nail head works	9 days	Wed 1/4/20	Wed 15/4/20	
1421	17.7.10.11	Phase III	44 days	Thu 16/4/20	Mon 8/6/20	
1422	17,7.10.11,1	drill, install steel bars and grout soil nails (AJ01-18, Y01-07, AH01-18, X01-08)	32 days	Thu 16/4/20	Mon 25/5/20	
	17,7.10.11.2	TDR Test (including test & wait issue result)	2 days	Tue 26/5/20	Wed 27/5/20	
	17.7.10.11.3	soil nail head works	10 days		Mon 8/6/20	
	17.7.10.12 17.7.10.12.1	Phase IV drill, install steel bars and grout soll nails (AJ01-18, Y01-07, AH01-18, X01-08)	44 days 32 days		Fri 31/7/20 Fri 17/7/20	
1427	17.7.10.12.2	TDR Test (including test & wait issue result)	2 days	Sat 18/7/20	Mon 20/7/20	
1428	17.7.10 12.3	soil nail head works	10 days	Tue 21/7/20	Fri 31/7/20	
1429	17.7.10.13	Phase V	44 days	Sat 1/8/20	Mon 21/9/20	
1430	17.7.10.13.1	drill, install steel bars and grout soil nails (AJ01-18, Y01-07, AH01-18, X01-08)	32 days	Sat 1/8/20	Mon 7/9/20	
1431	17.7.10 13 2	raking drains	2 days	Tue 8/9/20	Wed 9/9/20	
	17 7 10 13.3	TDR Test (including test & wait issue result)	2 days	Thu 10/9/20	Fri 11/9/20	
	17 7 10 13.4 17.7 10 14	soil nail head works 300UC (192m), 300SC (135m) & 2 catchpit	8 days 34 days	Sat 12/9/20 Tue 22/9/20	Mon 21/9/20 Tue 3/11/20	
1435	17.7.10.15	berm with handrailing C2409H	9 days	Wed 4/11/20	Fri 13/11/20	
	17.7.10.16	600mm width concrete maintenance staircase with handrailing	•	Sat 14/11/20		
1437	17.7.10.17	biodegradable erosion control mat with hydroseeding (2550m2)	52 days	Wed 2/12/20	Wed 3/2/21	
	17.7.11	Slopeworks: - 3NW-C/C231 (ch1220-1240N/B)	415 days	Thu 12/9/19	Wed 3/2/21	
1439	17.7.11.1	hoarding & fencing	12 days	Thu 12/9/19	Thu 26/9/19	
	17.7.11.2	temporary scaffolding		Fri 27/9/19	Tue 15/10/19	
	17.7.11.3	proposed slope stripping for mapping or rock and relict discontinuities (AS1-A,B, AS2-A,B)			Sat 26/10/19	
	17.7.11.4	trial pits (A1, A2, A3)	-	Mon 28/10/19		
1443	17.7.11.5	slope excavation works	1 day		Wed 6/11/19	
	17.7.11.6	Phase I		Thu 7/11/19		
	17.7.11.6.1	install test nails PN41-42 & pull out tests	7 days		Thu 14/11/19	
	17.7.11.6.2	drill, install steel bars and grout soil nails (BP01-08, BT01-05, BN01-08, BS01-08))	8 days		Sat 23/11/19	
	17.7.11.6.3 17.7.11.6.4	TDR Test (including test & wait issue result)	•	Mon 25/11/19 Wed 27/11/19	Tue 26/11/19	
	17.7.11.6.4	soil nail head works Phase II	3 days 28 days			
	17.7.11.7.1	install test nails PN43-44 & pull out tests	6 days			
1451	17,7.11.7.2	driil, install steel bars and grout soil nails (BM01-09, BR01-13, BL01-09, BQ01-22)	14 days	Sat 7/12/19	Mon 23/12/19	
1452	17.7.11.7.3	TDR Test (including test & wait issue result)	2 days	Tue 24/12/19	Fri 27/12/19	
1453	17.7.11.7.4	soil nail head works	6 days			
	17.7.11.8	Phase III	29 days		Tue 11/2/20	
1455	17.7.11.8.1	install test nails PN45-46 & pull out tests	6 days	Mon 6/1/20	Sat 11/1/20	
1456	17,7.11.8.2	drill, install steel bars and grout soil nails (BJ01-09, BK01-27, BG01-12, BH01-20)	14 days	Mon 13/1/20		
	17.7.11.8.3	TDR Test (including test & wait issue result)	2 days		Mon 3/2/20	
1458	17,7.11.8.4	soil nail head works	7 days	Tue 4/2/20	Tue 11/2/20	Page 14/20

Sang Hing Civil Contractors Company Limited



ID WBS 1459 17.7.11. 1460 17.7.11. 1461 17.7.11. 1462 17.7.11. 1463 17.7.11. 1465 17.7.11. 1465 17.7.11. 1465 17.7.11. 1465 17.7.11. 1466 17.7.11. 1466 17.7.11. 1467 17.7.11.	Tas 1.9 1.9.1 1.9.2 1.9.3 1.9.4 1.10 1.10.1	Phase IV install lest nails PN47-48 & pull out tests drill, install steel bars and grout soil nails (BE01-13, BF01-19, BC01-11, BD01-20) TDR Test (including test & wait issue result) soil nail head works Phase V	6 days 26 days 2 days	Start Date Wed 12/2/20 Wed 12/2/20 Wed 19/2/20	Mon 30/3/20 Tue 18/2/20	M B E M B E M B E M M B E M B
1460 17.7.11. 1461 17.7.11. 1462 17.7.11. 1463 17.7.11. 1465 17.7.11. 1465 17.7.11. 1465 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11. 1467 17.7.11.	1.9.1 1.9.2 1.9.3 1.9.4 1.10 1.10,1	install test nails PN47-48 & pull out tests drill, install steel bars and grout soil nails (BE01-13, BF01-19, BC01-11, BD01-20) TDR Test (including test & wait issue result) soil nail head works Phase V	6 days 26 days 2 days	Wed 12/2/20	Mon 30/3/20 Tue 18/2/20	
1461 17.7.11. 1462 17.7.11. 1463 17.7.11. 1464 17.7.11. 1465 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11.	1.9.2 1.9.3 1.9.4 1.10 1.10,1	drill, install steel bars and grout soil nails (BE01-13, BF01-19, BC01-11, BD01-20) TDR Test (including test & wait issue result) soil nail head works Phase V	26 days 2 days			
1462 17.7.11. 1463 17.7.11. 1464 17.7.11. 1465 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11.	1.9.3 1.9.4 1.10 1.10,1	(BE01-13, BF01-19, BC01-11, BD01-20) TDR Test (including test & wait issue result) soil nail head works Phase V	2 days	Wed 19/2/20	Thu 10/2/20	
1463 17.7.11. 1464 17.7.11. 1465 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11. 1466 17.7.11.	1 9.4 1 10 1 10 1	soil nail head works Phase V			1110 19/3/20	
1464 17.7.11. 1465 17.7.11. 1466 17.7.11. 1467 17.7.11. 1468 17.7.11.	1 10 1 10 1	Phase V	7 douro	Fri 20/3/20	Sat 21/3/20	
1465 17.7.11. 1466 17.7.11. 1467 17.7.11. 1468 17.7.11.	1,10,1		7 days	Mon 23/3/20	Mon 30/3/20	
1466 17.7.11 1467 17.7.11 1468 17.7.11		install test naits PN49-50 & pull out tests	36 days	Tue 31/3/20	Mon 18/5/20	
1467 17.7.11 1468 17.7.11	1 10 2		6 days	Tue 31/3/20	Tue 7/4/20	
1468 17.7.11		drill, install steel bars and grout soil nails (BA01-24, BB01-06, AY01-24, AZ01-06)	22 days	Wed 8/4/20	Fri 8/5/20	
	1.10.3	TDR Test (including test & wail issue resull)	2 days	Sat 9/5/20	Mon 11/5/20	
	1.10.4		6 days	Tue 12/5/20	Mon 18/5/20	
1469 17.7.11.	1.11	Phase VI	28 days	Tue 19/5/20	Fri 19/6/20	
1470 17.7.11	1.11.1	drill, install steel bars and grout soil nails	20 days	Tue 19/5/20	Wed 10/6/20	
		(AW01-24, AX01-05, AU01-21, AV01-08)				
1471 17.7.11	1,11,2	TDR Test (including test & wait issue result)	2 days	Thu 11/6/20	Fri 12/6/20	
1472 17.7.11	1.11,3	soil nail head works	6 days	Sat 13/6/20	Fri 19/6/20	
1473 17,7,11	1.12	Phase VII	23 days	Sat 20/6/20	Sal 18/7/20	
1474 17.7.11	1.12.1	drill, install steel bars and grout soil nails (AS01-18, AT01-11, AQ01-19, AR01-07)	14 days	Sat 20/6/20	Wed 8/7/20	
1475 17.7.11	1.12.2	raking drains	1 day	Thu 9/7/20	Thu 9/7/20	
1476 17.7.11	1.12,3	TDR Test (including test & wait issue result)	2 days	Fri 10/7/20	Sat 11/7/20	
1477 17.7.11	1.12.4	soil nail head works	6 days	Mon 13/7/20	Sat 18/7/20	
1478 17.7.11	1.13	Phase VIII	28 days	Mon 20/7/20	Thu 20/8/20	
1479 17.7.11	11.13.1	drill, install steel bars and grout soil nails (AN01-15, AP01-08, AL01-15, AM01-08, AK01-18)	18 days	Mon 20/7/20	Sat 8/8/20	
1480 17.7.11	11,13.2	raking drains	1 day	Mon 10/8/20	Mon 10/8/20	
1481 17.7.11	11.13.3	TDR Test (including test & wait issue result)	2 days	Tue 11/8/20	Wed 12/8/20	
1482 17.7.11	11.13.4	soil nail head works	7 days	Thu 13/8/20	Thu 20/8/20	
1483 17.7.11	11.14	300UC (240m) (with upstand (C2509A)), 300SC (160m) & catchpit 9 nos.	50 days	Fri 21/8/20	Tue 20/10/20	
1484 17.7.11	11.15	berm with handrailing C2409H	12 days	Wed 21/10/20	Wed 4/11/20	
1485 17.7.11	11.16	soil replacement by no-fine concrete	6 days	Thu 5/11/20	Wed 11/11/20	
1486 17.7.11	11,16,1	stage 1	2 days	Thu 5/11/20	Fri 6/11/20	
1487 17.7.11	11.16.1	temporary cut & excavation of soil	1 day	Thu 5/11/20	Thu 5/11/20	
1488 17.7.11	11_16_1	placement of no-fine concrete	1 day	Fri 6/11/20	Fri 6/11/20	
1489 17.7.11	11 16.2	stage 2	2 days	Sat 7/11/20	Mon 9/11/20	
1490 17.7.11		temporary cut & excavation of soil	1 day	Sat 7/11/20	Sat 7/11/20	
1491 17.7.1		placement of no-fine concrete	1 day		Mon 9/11/20	
1492 17.7.11		stage 3			Wed 11/11/20	
1493 17.7.11		temporary cut & excavation of soil			Tue 10/11/20	
1494 17.7.1		placement of no-fine concrete			Wed 11/11/20	
1495 17.7.1		600mm width concrete maintenance staircase with handrailing (C2101D)		Thu 12/11/20		
1496 17.7.1		stage 1	,		Sat 14/11/20	
1497 17.7.1		stage 2			Wed 18/11/20	
1498 17.7.1		stage 3		Thu 19/11/20		
1499 17.7.1		stage 4			Mon 23/11/20	
1500 17.7.1		stage 5	2		Wed 25/11/20	
1501 17.7.1		slage 6			Fri 27/11/20	
1502 17.7.1		stage 7	-	Sat 28/11/20		
1503 17.7.1		biodegradable erosion control mal with hydroseeding (at south west corner)	4 days	Sal 5/12/20	Wed 9/12/20	
1504 17.7.1	.11.19	75mm thick shotcrete with water base color paints and a layer of A252 wire mesh together with planter hole & shrub planting	45 days	Thu 10/12/20	Wed 3/2/21	
1507 20		ection 3 of the works - Completion of all works ithin Parts D and E of the Site	797 days	Thu 31/5/18	Wed 3/2/21	
1508 20.1		Parts D	800 days	Mon 26/11/18	Wed 3/2/21	
1509 20.1.1	.1	access date for section 3 (Parts D) - not more than 180 days after the starting date	0 days	Mon 26/11/18	Mon 26/11/18	
1510 20.1.2	.2	seek specialist for design, supply and installation of the covered walkway	59 days	Tue 27/11/18	Thu 24/1/19	

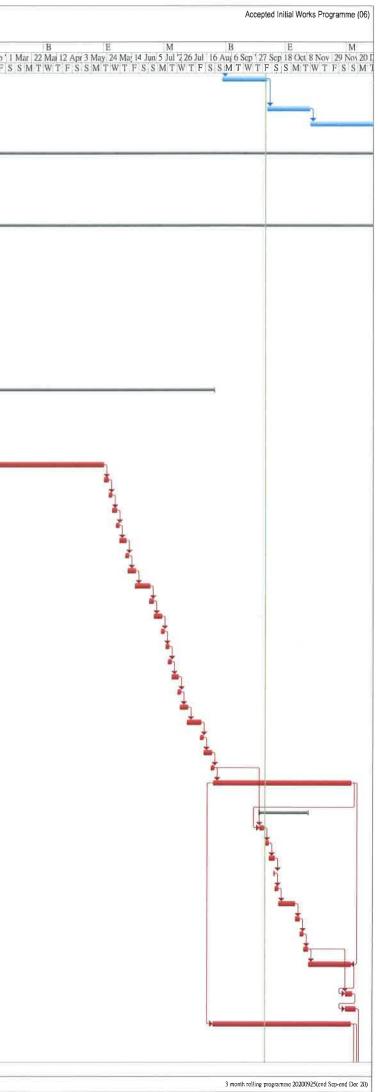


Develop	ment o	v/2017/02 f Columbarium at Sandy Ridge Cemetery Works at Man Kam To Road and Lin Ma Hang Road					3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
	VBS	Task Name	Duration	Start Date	Completion Date	M B 1 Mai 10 Jun 1 Jul '1 22 Jul 12 Aug 2 Sep '	B E M B E M B E M 23 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan ' 27 Jan 17 Feb 10 Mar 31 Mar 21 Apr 12 Mar 2 Jun ' 23 Jun ' 4 Jul ' 4 Aug 25 Aug 15 Sep 6 Oct ' 27 Oct ' 17 Nov 8 Dec ' 29 Dec 19 Jan 9 Feb ' T F S S M T W T F S
1511 2	0.1.3	acceptance of specialist	0 days	Thu 14/2/19	Thu 14/2/19	W T F S S M T W T F S S M T W	T F S S M I W I
1512 2	0.1.4	design for approval for lighting system for the covered walkway	150 days	Fri 15/2/19	Sun 14/7/19		
1513 2	0.1.5	submit for approval for lighting system for the covered walkway	0 days	Sun 14/7/19	Sun 14/7/19		
1514 2	0.1.6	acceptance of lighting system for the covered walkway	0 days	Sun 4/8/19	Sun 4/8/19		T
1515 2	0.1.7	Coordination with CLP to obtain the electricity supply for the street lighting system (Design for Road B, Road E, Road F(part), Lin Ma Hang Road and Sheung Shui Landmark PTI & Lighting system for the covered walkway)	168 days	Mon 5/8/19	Sun 19/1/20		
1516 2	0.1.8	design for glazing system of the proposed covered walkway at Fanling Station Road	150 days	Fri 15/2/19	Sun 14/7/19		
1517 2	0.1.9	submission of glazing system	0 days	Sun 14/7/19	Sun 14/7/19		*
1518 2	0,1,10	acceptance of glazing system and fall arrest system by Project Manager		Sun 4/8/19	Sun 4/8/19		
1519	0.1.11	design for fall arrest system of the proposed covered walkway at Fanling Station Road	150 days	Fri 15/2/19	Sun 14/7/19		
1520 2		submission of fall arrest system	0 days	Sun 14/7/19	Sun 14/7/19		
1521 2	0_1_13	acceptance of fall arrest system by Project Manager	0 days	Sun 4/8/19	Sun 4/8/19		
1522		Liaison with MTRC for the works arrangement	30 days		Tue 3/9/19		
1523 2		general site clearance	12 days		Wed 18/9/19 Thu 3/10/19		
1524		initial survey utility detection and submil reports	12 days 8 days	Fri 4/10/19	Mon 14/10/19		
1526		Fabrication of Steelworks & glass panel	100 days		Mon 2/12/19		
1527		delivery steelworks & glass panel to site	38 days		Sat 18/1/20		
1528	20,1,20	application of XP (for Parts D)	0 days	Thu 29/11/18	Thu 29/11/18		*
1529	20 1 21	acceptance of XP (for Parts D)	0 days	Thu 30/5/19			3
1530	20.1.22	Construction of Covered Walkway at Fanling Station	390 days	Tue 15/10/19	Wed 3/2/21		
1531	20_1.22.1	construct the concrete foundation of covered walkway (first 20m)			Wed 6/11/19		
1532	20.1.22.2	construct the concrete foundation of covered walkway (2nd 20m)	20 days	Thu 7/11/19	Fri 29/11/19		
1533	20 1.22 3	construct the concrete foundation of covered walkway (3rd 20m)	20 days	Sat 30/11/19	Mon 23/12/19		
1534	20.1 22 4	01 (0)			Mon 23/12/19		
1535	20.1 22 5	construct lhe concrete foundation of covered walkway (4th 20m)			Sat 18/1/20		
1536	20 1 22 6	construction of covered walkway including steelworks, glass panel and electrical works	265 days	Mon 20/1/20	Wed 9/12/20		
1537	20.1.22.7	Reinstalement of the pavement and street furniture	45 days	Thu 10/12/20	Wed 3/2/21		
1538		Parts E		Thu 31/5/18		h	
1539		access date for section 3 (Parts E)	0 days			•	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,
1540 1541		application of XP (for Parts E) acceptance of XP (for Parts E)	0 days 0 days	Thu 30/5/19	Thu 30/5/19 Thu 28/11/19		
1542		Temporary Traffic Arrangement (TTA) Scheme for Sheung Shui Landmark North PTI and Fanling Station Road	•	Fri 31/5/19	Mon 27/1/20		
1543	20.2.4.1	Preparation of TTA for TMLG and acceptance from TD and RMO	120 days	Fri 31/5/19	Fri 27/9/19		**
1544	20.2.4.2	Comment & acceptance of TTA scheme by TD & RMO	60 days	Sat 28/9/19	Tue 26/11/19		±
1545	20.2 4 3	Obtain roadwork advice from RMO	60 days	Fri 29/11/19	Mon 27/1/20		******
1546		general site clearance		Wed 29/1/20			
1547		initial Survey		Wed 12/2/20			
1548		utility detection and submit reports Road Improvement works at Sheung Shui Landmark	14 days		Sat 14/3/20 Sat 16/1/21		
1549		North PTI					
	20.2.8.1	saw cut and remove existing pavement		Mon 16/3/20			
in the second	20.2.8.2	remove existing kerb and railings demolish existing slope planter wall	14 days 21 days		Thu 16/4/20 Wed 13/5/20		
	20.2.8.4	construct slope planter wall	60 days				
-1:5-C	20.2.8.5	construct kerb backing & lay kerb		Sat 25/7/20			
	a san asa s	Contractors Company Limited					Page 16/20

Sang Hing Civil Contractors Company Limited

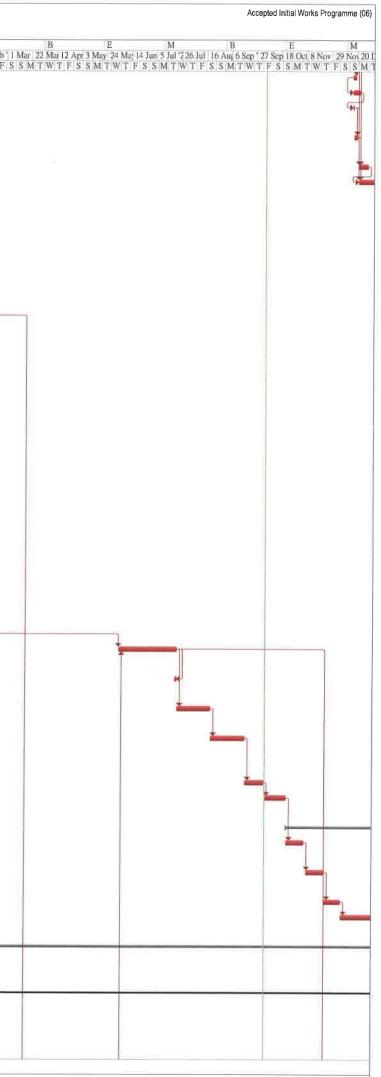
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	ment of	//2017/02 Columbarium at Sandy Ridge Cemetery Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
D WI		Task Name	Duration	Start Date	Completion Date	M B E M B E M B E M Mat 10 Jun 1 Jul '122 Jul 12 Aug 2 Sep '23 Sep 14 Oct 4 Nov 25 Nov 16 Dec 6 Jan '27 Jan 17 Feb 10 Mai 31 Mai 21 Apr 12 Mat 2 Jun '23 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct '27 Oct 17 Nov 8 Dec '29 Dec 19 Jan 9 Feb '1
1555 20.	.2.8.6	construct concrete & bituminous pavement for	30 days	Sat 29/8/20	Mon 5/10/20	W T F S S M T W
		road and central refuge			- (0)(()00	
1556 20. 1557 20.		relocate existing street lighting (DD0398) install type 2 railing, traffic & directional signs	-	Tue 6/10/20 Wed 11/11/20		
1557 20.	2.0.0	instan type z raining, tranic o directionar signs	40 0035	1100 1111120	100 071121	
1569 29		section 6 of the works (section Subject to Excision) - Completion of all works within Parts A3 and A4 of the Site except Establishment works. Extent of works under section 6 of the works is defined in Drawing No.: 231448/C2/G/1031	859 days	Fri 28/9/18	Wed 3/2/21	
1570 29	.1	Parts A3	859 days	Fri 28/9/18	Wed 3/2/21	
1571 29	.1.1	access date for section 6 (Part A3) - not more than	0 days	Fri 28/9/18	Fri 28/9/18	*
1572 29.	1.2	120 days after the starting date The time for ordering the "section Subject to Excision" for section 6 and 7 is within 390 days commencing from and including the starting date	0 days	Mon 24/6/19	Mon 24/6/19	
1573 29	1.3	form temporary haul road from the south side to Parts A3	5 days	Tue 25/6/19	Sat 29/6/19	
1574 29	1.4	general site clearance & tree felling	12 days	Tue 2/7/19	Mon 15/7/19	· · · · · · · · · · · · · · · · · · ·
1575 29	1.5	initial survey	12 days	Tue 2/7/19	Mon 15/7/19	
1576 29		construction of temporary drainage	14 days			
1577 29	117	Construction of Retaining Wall RW14 (Bay 1-Bay 6)	312 days	Fri 26/7/19	Sat 22/8/20	
1578 :29	1.7.1	excavation (open cut) to formation (bays 1 to 4)	5 days	Fri 26/7/19	Wed 31/7/19	
1579 29	1.7.2	temporary soil nails (bays 5 to 7)	23 days			
1580 29		predrilling for socketed H-Piling	25 days		Thu 26/9/19 Thu 21/5/20	
1581 29 1582 29		construction of socketed H-Pile post drilling for socketed H-Piling	185 days 3 days	Tue 24/9/19 Fri 22/5/20	Mon 25/5/20	
1583 .29		blinding concrete for bays 1 to 7	3 days	Tue 26/5/20	Thu 28/5/20	
1584 29		base formwork for bay 2, 4 & 6	3 days	Fri 29/5/20	Mon 1/6/20	
1585 29	178	base steel fixing for bay 2, 4 & 6	3 days	Mon 1/6/20	Wed 3/6/20	
1586 29		base concreting & curing for bay 2, 4 & 6	5 days	Thu 4/6/20	Tue 9/6/20	
1587 :29		remove base formwork	3 days 6 days	Tue 9/6/20 Thu 11/6/20	Thu 11/6/20 Wed 17/6/20	
1588 29 1589 29		falsework and formwork for walls of bay 2, 4 & 6 steel fixing for walls of bay 2, 4 & 6	,	Wed 17/6/20		
1590 29		close formwork for walls of bay 2, 4 & 6	3 days		Thu 2/7/20	
1591 29	9.1.7.14	concreting and curing for walls of bay 2, 4 & 6	6 days	Fri 3/7/20	Thu 9/7/20	
1592 29		remove falsework and formwork for walls	3 days	Thu 9/7/20	Sat 11/7/20	
1593 29		base formwork for bay 1, 3 & 5	3 days 3 days	Mon 13/7/20 Wed 15/7/20		
1594 :29 1595 29		base steel fixing for bay 1, 3 & 5 base concreting & curing for bay 1, 3 & 5	5 days	Sat 18/7/20	Thu 23/7/20	
1596 29		remove base formwork	3 days	Thu 23/7/20	Sat 25/7/20	
1597 29	9.1.7.20	falsework and formwork for walls of bay 1, 3 & 5	6 days	Sat 25/7/20	Fri 31/7/20	
1598 28		steel fixing for walls of bay 1, 3 & 5	10 days		Tue 11/8/20	
1599 29		close formwork for walls of bay 1, 3 & 5	3 days	Tue 11/8/20	Thu 13/8/20	
1600 29 1601 29		concreting and curing for walls of bay 1, 3 & 5 remove falsework and formwork for walls	6 days 3 days	Fri 14/8/20 Thu 20/8/20	Thu 20/8/20 Sat 22/8/20	
1602 29		backfilling works behind Retaining Wall RW14 (bay1 to 6) (include SRT tests)				
1603 29	9.1.9	Construction of Retaining Wall RW14 Bay 7	27 days	Wed 30/9/20		
1604 29		base formwork	2 days			
1605 29		base steel fixing	3 days		Wed 7/10/20 Mon 12/10/20	
1606 29		base concreting & curing remove base formwork	3 days 1 day		Mon 12/10/20	
1608 29		falsework and formwork for wall	3 days			
1609 29		steel fixing for wall	9 days		Thu 29/10/20	
1610 29		close formwork for wall	2 days			
1611 21		concreting and curing for wall	3 days			
1612 20		remove falsework and formwork backfilling works behind RW14 (bay 7) (include SRT tests)	2 days 30 days	Fri 6/11/20 Tue 10/11/20	Mon 9/11/20 Tue 15/12/20	
1614 29	9,1,11	install instrument for RW14	5 days	Fri 11/12/20	Wed 16/12/2	
1615 29		construct 300U channel & catchpit in front of RW14	-		Sat 19/12/20	
1616 2	9.1.13	site formation works for fill slope FS19 and FS20 (including in "backfilling works behind Retaining Wal RW14 (bay1 to 6)")		Sat 22/8/20	Tue 15/12/20	



D Design and the second s	Develo	pment c	W/2017/02 of Columbarium at Sandy Ridge Cemetery				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
International approximation (Sec. 1996) International (Sec. 1996) Internation (Sec. 1996) International (Sec. 1996)				Duration	Start Date	Completion	M B E M B E M B E M B F M
No. No. 10. Part Instruction (1993) (19						Date	May 10 Jun 1 Jul 1 22 Jul 12 Aug 2 Sep 1 23 Sep 1 4 Oct 4 Nov 25 Nov 16 Dec 6 Jan 1 27 Jan 17 Feb 10 May 31 Mat 21 Apr 12 May 2 Jun 1 2 Jun 14 Jul 4 Aug 25 Aug 15 Sep 6 Oct 1 27 Oct 17 Nov 8 Dec 19 Jan 9 Feb 1 1 W T F S S M T
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No. No. <td>1620</td> <td>29.1.17</td> <td>minor site formation works for cut slope CS26</td> <td>3 days</td> <td>Thu 17/12/20</td> <td>Sat 19/12/20</td> <td></td>	1620	29.1.17	minor site formation works for cut slope CS26	3 days	Thu 17/12/20	Sat 19/12/20	
No. No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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No.5 Number Operating and Relation (CS) B MP (2) IV Mp (e) Mu (A 101) No.5 Number Operating and RV (CM) (D) Mp (e) Mu (A 101) Mu (A 101) No.5 Number (CS) B MA Operating and RV (CM) (D) Mp (e) Mu (A 101) Mu (A 101) No.5 Number (CS) B MA Operating and RV (CM) (D) Mp (e) First (A 101) Mu (A 101) No.5 Number (CS) B MA Operating and RV (CM) (D) Mu (A 101) Mu (A 101) Mu (A 101) No.5 Number (CS) B MA Mu (M 101) Mu (A 101) Mu (A 101) Mu (A 101) Mu (A 101) No.5 Mu (M 101) No.5 Mu (M 101) No.5 Mu (M 101) Mu (M 101) <td>1631</td> <td>29.1.23</td> <td>temporary cutting from top of RW12 to toe of CS24)</td> <td>4 days</td> <td>Tue 17/9/19</td> <td>Fri 20/9/19</td> <td></td>	1631	29.1.23	temporary cutting from top of RW12 to toe of CS24)	4 days	Tue 17/9/19	Fri 20/9/19	
607 21:00 10.00 607 21:00 10.00 619 20:00 107 20:00 10.00 610 20:00 100 20:00	1632	29.1.24	install instrument for CS24	5 days	Mon 23/9/19	Fri 27/9/19	
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No. No. Section Sectin Sectin Sectin Section Sectin Section Section Sectin Section Se	1640	29.1.26.6	remove base formwork	1 day	Fri 22/11/19	Fri 22/11/19	4
666 81.4.6. descenting Acar Acar Acar Acar Acar Acar Acar Acar	1641	29.1.26.7	falsework and formwork for walls of bay 1 & 3	4 days			
No.600 No.14.9 Description while fully 1.3 4.4mg The V2/19 Mon 16/2/19 No.600 No.14.9 Bridge provides to ya 2 1.4mg Mon 16/2/19 Period Provides to ya 2 Period Prove Provide Provides to ya 2 Period Provides to		a reaction of	о ,				
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14 days 0444/4/00 Thu 20/4/20	1674	29.2.3	general site clearance	15 days	Thu 2/1/20	Sat 18/1/20	
1675 29.2.4 initial survey 11 days Sat 11/1/20 Thu 23/1/20	1675	29.2.4	initial survey	11 days	Sat 11/1/20	Thu 23/1/20	

Sang Hing Civil Contractors Company Limited



) avalo	opment of C	2017/02 Columbarium at Sandy Ridge Cemetery Vorks at Man Kam To Road and Lin Ma Hang Road	I			3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)
		Task Name	Duration	Start Date	Completion Date	M B E M B
1676	29,2.5	construction of temporary drainage	15 days	Thu 16/1/20	Wed 5/2/20	
1677	29.2.6	Site Formation works for Cut Slope CS24 (include temporary cutting from top of RW12 to toe of CS24) (for RW12 bays 4-6)	7 days	Wed 29/1/20	Wed 5/2/20	
1678	29.2.7	install instrument for CS24	3 days	Thu 6/2/20	Sat 8/2/20	
1679		temporary soil nails between CS20 & RW12 (for RW12 bays 4-6)	35 days	Thu 6/2/20	Tue 17/3/20	
1680	29.2.9	Construction of Retaining Wall RW12 CH 21-40	58 days	Wed 18/3/20	Wed 3/6/20	
1681	29.2.9.1	plate load tests	3 days	Wed 18/3/20	Fri 20/3/20	
	29.2.9.2	blinding concrete for bay 4 to 6	2 days	Mon 23/3/20	Tue 24/3/20	
	29.2.9.3	base formwork for bay 4 & 6	2 days	Wed 25/3/20	Thu 26/3/20	
	29.2.9.4	base steel fixing for bay 4 & 6	4 days	Fri 27/3/20	Wed 1/4/20	
	29.2.9.5	base concreting & curing for bay 4 & 6	3 days	Thu 2/4/20	Mon 6/4/20	
	29.2.9.6	remove base formwork	1 day	Tue 7/4/20	Tue 7/4/20 Tue 14/4/20	
	29.2.9.7	falsework and formwork for walls of bay 4 & 6	3 days	Wed 8/4/20		
	29.2.9.8	steel fixing for walls of bay 4 & 6	8 days	Wed 15/4/20 Sat 25/4/20	Fri 24/4/20 Mon 27/4/20	
	29.2.9.9	close formwork for walls of bay 4 & 6	2 days 4 days	Sat 25/4/20 Tue 28/4/20	Mon 2/74/20 Mon 4/5/20	
	29.2.9.10	concreting & curing for walls of bay 4 & 6 remove falsework and formwork for walls	4 days 2 days	Mon 4/5/20	Tue 5/5/20	
	29.2.9.11		2 days 1 day	Wed 6/5/20	Wed 6/5/20	
	29.2.9.12 29.2.9.13	blinding concrete for bay 5	1 day	Thu 7/5/20	Thu 7/5/20	
	29.2.9.13	base formwork for bay 5 base steel fixing for bay 5	2 days	Fri 8/5/20	Sat 9/5/20	
	29.2.9.14	base concreting & curing for bay 5	3 days	Mon 11/5/20	Wed 13/5/20	
	29.2.9.16	remove base formwork	1 day	Thu 14/5/20	Thu 14/5/20	5 C
	29.2.9.17	falsework & formwork for walls of bay 5	2 days	Fri 15/5/20	Sat 16/5/20	
	29.2.9.18	steel fixing for walls of bay 5	7 days	Mon 18/5/20	Mon 25/5/20	
	29.2.9.19	close formwork for walls of bay 5	1 day	Tue 26/5/20	Tue 26/5/20	
	29.2.9.20	concreting & curing for walls of bay 5	3 days	Wed 27/5/20	Fri 29/5/20	
	29.2.9.21	remove falsework and formwork for walls	1 day	Sat 30/5/20	Sat 30/5/20	
	29.2.9.22	install instrument for RW12	3 days	Mon 1/6/20	Wed 3/6/20	
	29.2.10	Site Formation works for Cut Slope CS20	125 days		Tue 3/11/20	
	29.2.10.1	slope excavation work	19 days		Mon 22/6/20	
1705	29.2.10.2	temporary scaffolding	5 days	Tue 23/6/20	Mon 29/6/20	
	29.2.10.3	trial pit TP11	2 days	Tue 30/6/20	Thu 2/7/20	
1707	29.2.10.4	Phase I	17 days	Fri 3/7/20	Wed 22/7/20	
1708	29.2.10.4.1	install test nail PN03 & pull out test	6 days	Fri 3/7/20	Thu 9/7/20	
1709	29.2.10.4.2	drill, install steel bars and grout soil nails (RL01, RK01-06, RJ01-10)	6 days	Fri 10/7/20	Thu 16/7/20	
1710	29.2.10.4.3	raking drains	1 day	Fri 17/7/20	Fri 17/7/20	
1711	29.2.10.4.4	TDR Test (including test & wait issue result)	2 days	Sat 18/7/20	Mon 20/7/20	
1712	29.2.10.4.5	soil nail head works	2 days	Tue 21/7/20	Wed 22/7/20	
1713	29.2.10.5	Phase II	17 days			
1714	29.2.10.5.1	install test nail PN05 & pull out test	6 days	Thu 23/7/20	Wed 29/7/20	
1715	29.2.10.5.2	drill, install steel bars and grout soil nails (RH01-12, RG01-12, SF01-04)	5 days	Thu 30/7/20	Tue 4/8/20	
1716	29.2.10.5.3	raking drains	1 day	Wed 5/8/20	Wed 5/8/20	
1717	29.2.10.5.4	TDR Test (including lest & wait issue result)	2 days	Thu 6/8/20	Fri 7/8/20	
	29.2.10.5.5	soil nail head works	3 days		Tue 11/8/20	
	29.2.10.6	Phase III	9 days		Fri 21/8/20	
	29.2.10.6.1	install test nail PN02 & pull out test	6 days	Wed 12/8/20	Tue 18/8/20	
1721	29.2.10.6.2	drill, install steel bars and grout soil nails (RF01-13, SE01-07)	3 days	Wed 19/8/20	Fri 21/8/20	
1722	29.2.10.7	Phase IV	21 days	Sat 22/8/20	Tue 15/9/20	
1723	29.2.10.7.1	install test nail PN04 & pull out test	6 days	Sat 22/8/20	Fri 28/8/20	
1724	29.2.10.7.2	drill, install steel bars and grout soil nails (RE01-14, SD01-08, RC01-15, SC01-03)	7 days	Sat 29/8/20	Sat 5/9/20	
1725	29.2.10.7.3	raking drains	1 day	Mon 7/9/20	Mon 7/9/20	
1726	29.2.10.7.4	TDR Test (including test & wait issue result)	2 days	Tue 8/9/20	Wed 9/9/20	
100-202	29.2.10.7.5				Tue 15/9/20	

soil nail head works

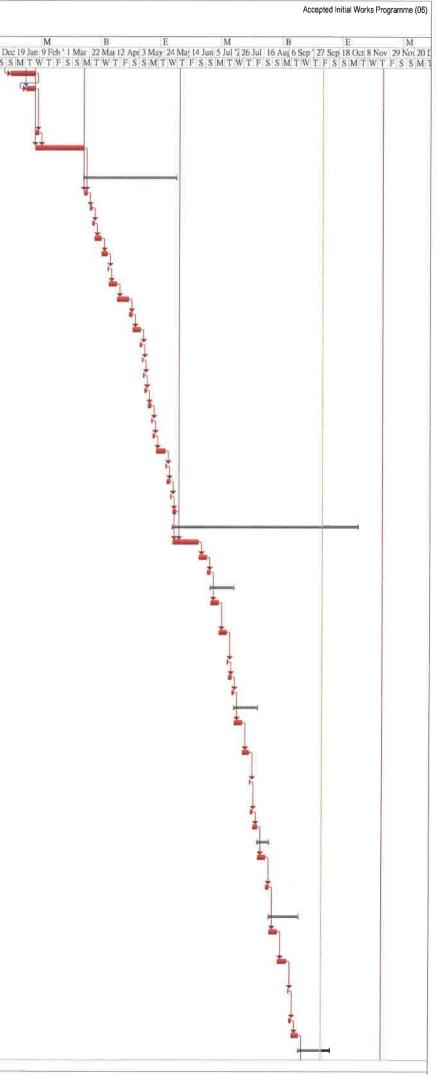
Phase V

1727 29.2.10.7.5

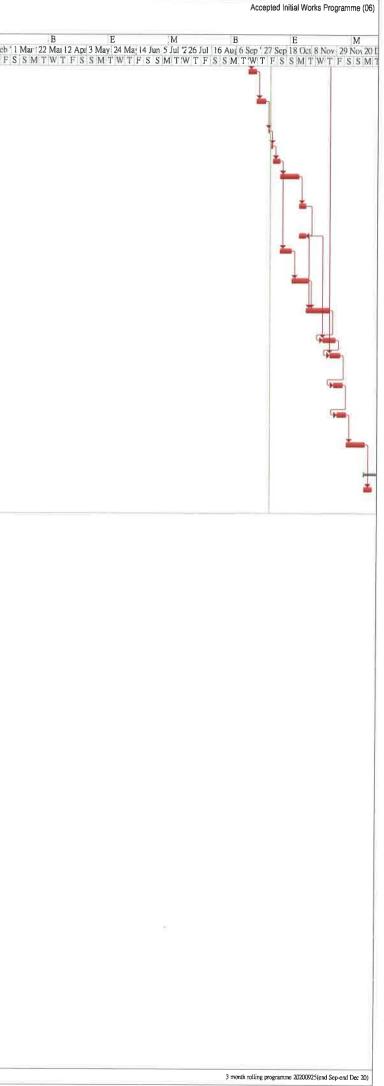
1728 29.2.10.8

5 days Thu 10/9/20 Tue 15/9/20

20 days Wed 16/9/20 Mon 12/10/20



Devel	act No. C\ opment of istructural	//2017/02 Columbarium at Sandy Ridge Cemetery Works at Man Kam To Road and Lin Ma Hang Road				3 Month Rolling Programme (from 26/9/2020 to 25/12/2020)	
)	WBS	'Task Name	Duration	Start Date	Completion Date	on M B E M B B E M B B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B E M B B B E M B B B E M B B B B	M 9 Feb 1 I W T F S
1729	29.2.10.8.1	install test nail PN01 & pull out test	6 days	Wed 16/9/20	Tue 22/9/20		1141615
1730	29.2.10.8.2	drill, install steel bars and grout soil nails (RB01-16, SB01-02, RA01-18)	7 days	Wed 23/9/20	Wed 30/9/20	20	
1731	29.2.10.8.3	raking drains	1 day	Sat 3/10/20	Sat 3/10/20	20	
1732	29.2.10.8.4	TDR Test (including test & wait issue result)	2 days	Mon 5/10/20	Tue 6/10/20	20	
1733	29.2.10.8.5	soil nail head works	4 days	Wed 7/10/20	Mon 12/10/2	/20	
1734	29.2.10.9	300U channel, 300 stepped channel & catchpils	11 days	Tue 13/10/20	Wed 28/10/2	/20	
1735	29.2.10.10	600mm width concrete maintenance staircase with handrailing	4 days	Thu 29/10/20	Tue 3/11/20	20	
1736	29.2.10.11	install instrument for CS20	4 days	Thu 29/10/20	Tue 3/11/20	20	
1737	29,2,11	Site Formation works for Cut Slope CS26 (A4)	8 days	Tue 13/10/20	Thu 22/10/20	20	
1738	29.2.12	Site Formation works for Cut Slope CS25 (A4)	9 days	Fri 23/10/20	Thu 5/11/20	20	
1739	.29.2.13	complete the construction of U channel at CS 25 and 26	15 days	Wed 4/11/20	Mon 23/11/2	/20	
1740	29.2.14	planter wall	10 days	Wed 18/11/20	Sat 28/11/20	20	
1741	29.2.15	Waterworks at Road B		Tue 24/11/20			
1742	29.2.16	Sewerage works at Road B	7 days	Fri 27/11/20	Fri 4/12/20	0	
1743	29.2.17	Drainage works at Road B	7 days	Mon 30/11/20	Mon 7/12/20	20	
1744	29.2.18	UU - Arrange Town Gas & PCCW to lay cables (not agreed yet)	14 days	Tue 8/12/20	Wed 23/12/2	/20	
1745	29.2.19	Roadworks of Road B (A4-ch90-130)	23 days	Wed 23/12/20	Thu 21/1/21	21	
1746	29.2.19.1	kerbing, sub-base & cross road duct (RD/2061, 2081)	4 days	Wed 23/12/20	Tue 29/12/2	/20	



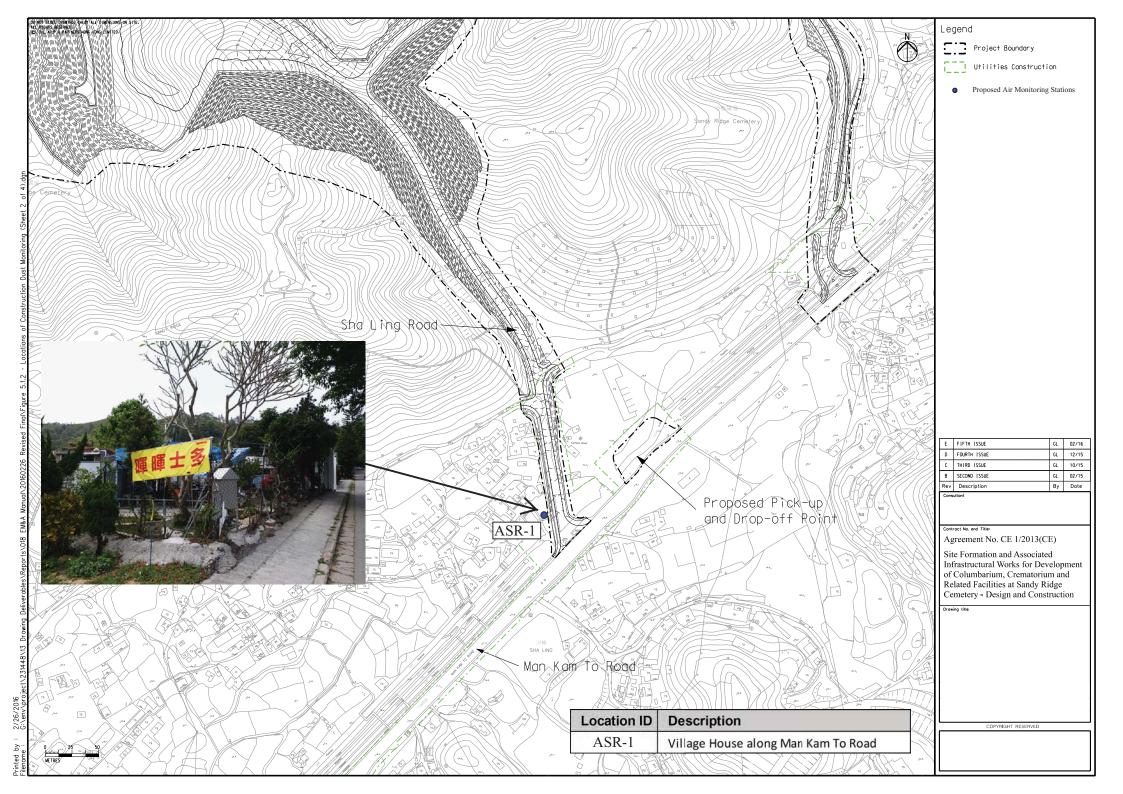


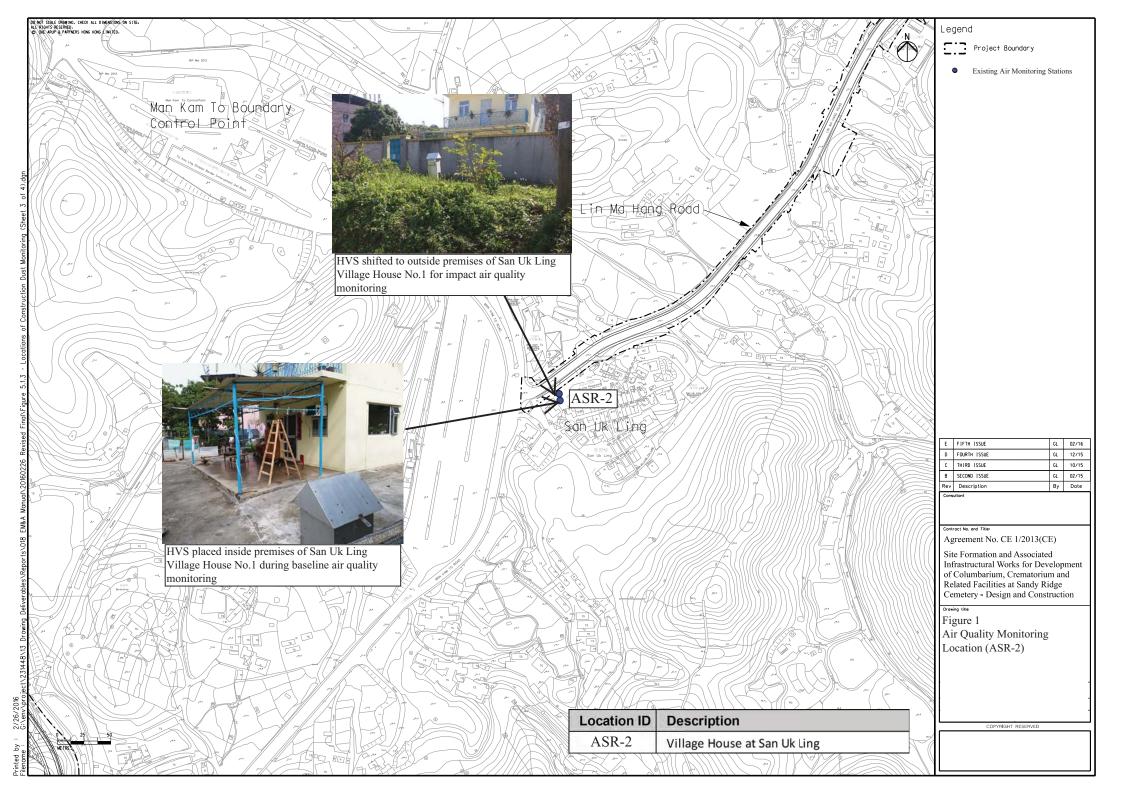
Appendix D

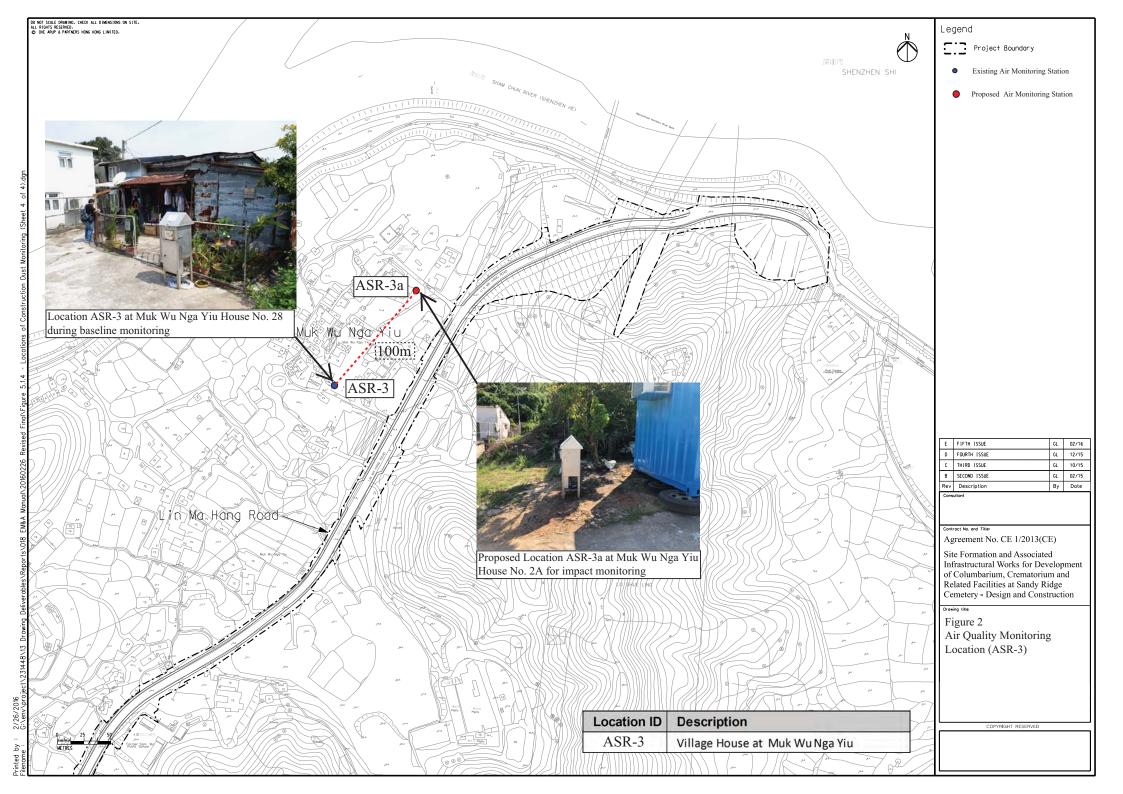
Monitoring Locations



Air Quality Monitoring Location





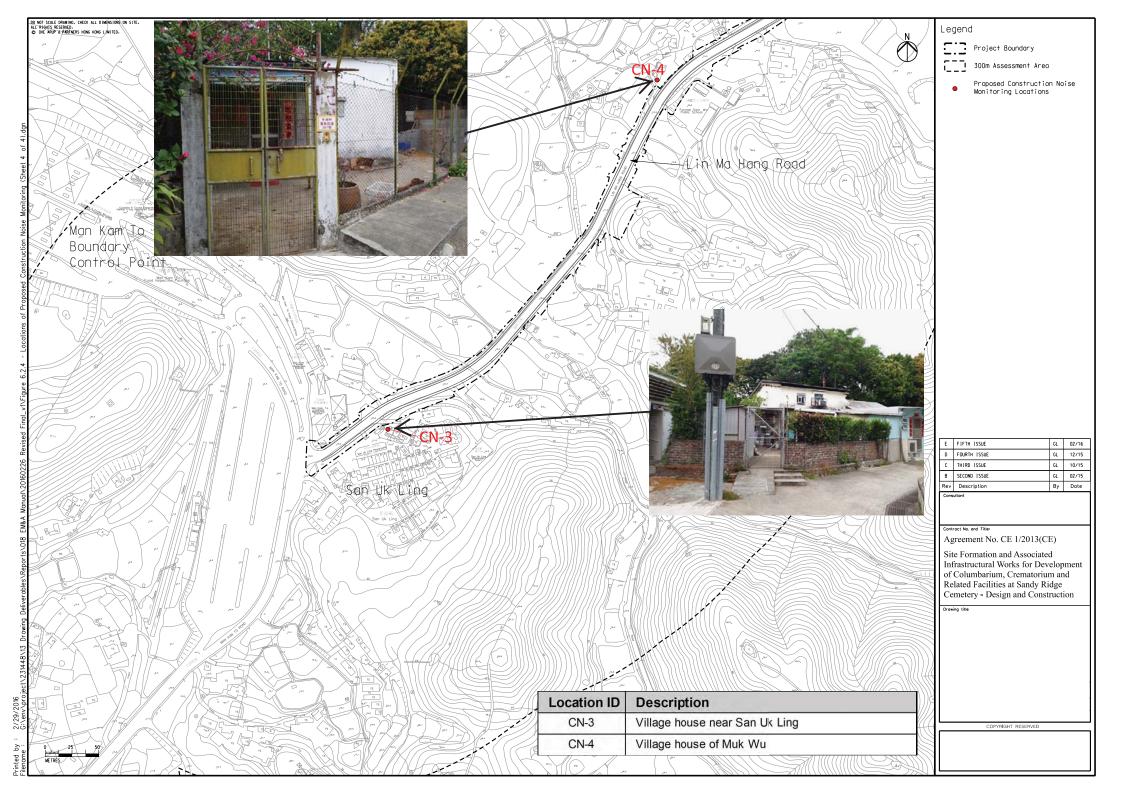




Noise Monitoring Location

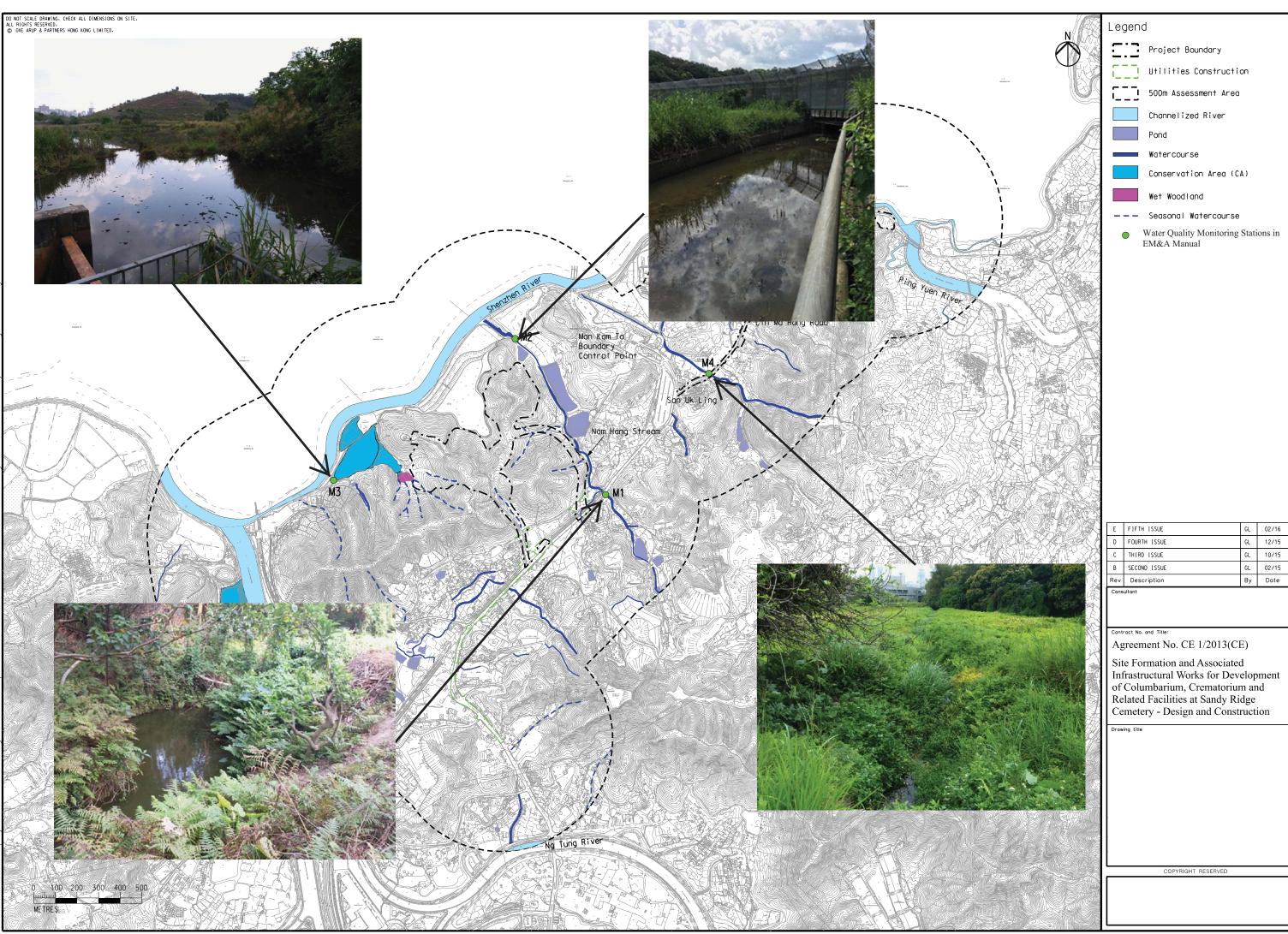








Water Quality Monitoring Station



Ε	FIFTH ISSUE	GL	02/16
D	FOURTH ISSUE	GL	12/15
С	THIRD ISSUE	GL	10/15
В	SECOND ISSUE	GL	02/15
Rev	Description	By	Date
Cons	ultant		



Appendix E

Calibration Certificate of Monitoring Equipment and Laboratory Certificate



CALIBRATION CERTIFICATES FOR MONITORING EQUIPMENT USED IN THE REPORTING MONTH

Items	Aspect	Description of Equipment	Date of Calibration	Date of Next Calibration
1		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-1	18 Aug 20	2 Sep 20
1a		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-1	3 Sep 20	17 Sep 20
1b		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-1	16 Sep 20	30 Sep 20
2		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-2	18 Aug 20	2 Sep 20
2a		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-2	3 Sep 20	17 Sep 20
2b		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-2	16 Sep 20	30 Sep 20
3		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-3a	18 Aug 20	2 Sep 20
3a	Air	TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-3a	3 Sep 20	17 Sep 20
3b		TISCH High Volume Air Sampler, HVS Model TE-5170 TSP Sampler Calibration Spreadsheet for ASR-3a	16 Sep 20	30 Sep 20
4		Calibration Kit TISCH Model TE-5025A Orifice ID 1941 and Rootsmeter S/N 438320	7 Feb 20	7 Feb 21
6		Laser Dust Monitor, Model LD-3B (Serial No. 366410) – EQ110	6 Jan 20	6 Jan 21
7		Laser Dust Monitor, Model LD-3B (Serial No. 366410) – EQ110	6 Jan 20	6 Jan 21
8		Laser Dust Monitor, Model AM510 (Serial No. 11008017) – EQ102	6 Jan 20	6 Jan 21
9		Laser Dust Monitor, Model LD-3B (Serial No. 2X6145) – EQ105	6 Jan 20	6 Jan 21
10		Laser Dust Monitor, Model LD-3B (Serial No. 3Y6503) – EQ112	6 Jan 20	6 Jan 21
11		Rion NL- 52 Sound Level Meter (Serial No. 00921191) – EQ013	11 Aug 20	11 Aug 21
12	Noise	Rion NL- 52 Sound Level Meter (Serial No. 01121362) – EQ011	7 Jan 20	7 Jan 21
13		Rion NC - 73 Acoustical Calibrator (Serial No. 10655561) – EQ085	27 Feb 20	27 Feb 21
14	Weter	YSI Pro DSS (Serial No.15H102620)	6 Jul 20	6 Oct 20
15	Water	Global Water FP211 Flow Meter (Serial No. 1449006330)	9 Oct 19	9 Oct 20

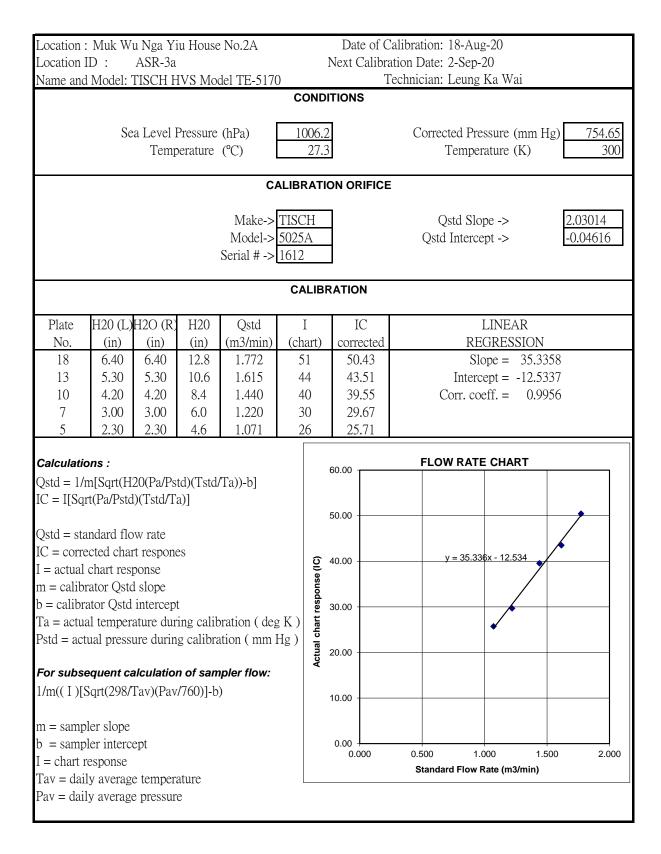
Location :			e House	No.6					Calibration: 3-Sep-20	
Location 1		ASR-1				l	Next (ation Date: 17-Sep-20	
Name and	l Model: '	TISCH H	HVS Mo	del TE-517					Sechnician: Leung Ka Wai	
					CC	DNDI	TION	S		
	C.	. T11	D	$(1, \mathbf{D}_{+})$	10	00.2	T		()	25
	Se	a Level I		. ,		$\frac{008.3}{20.2}$	7		Corrected Pressure (mm Hg) 756.2	
		Temp	berature	(\mathbf{C})		30.2	ļ		Temperature (K) 3	03
				C	ALIBR	ΑΤΙΟ	ON OF	RIFICE	E	
				Make->	TISC	Н	ļ		Qstd Slope -> 2.03014	
				Model->		A			Qstd Intercept -> -0.04616	5
				Serial # ->	1612					
					СА	LIBR	ΑΤΙΟ	N		
Plate	H20(L)	H2O (R)	H20	Qstd	Ι		I	C	LINEAR	
No.	(in)	(in)	(in)	(m3/min)	(cha			ected	REGRESSION	
18	6.30	6.30	12.6	1.752	52).98	Slope = 36.6859	
13	5.00	5.00	10.0	1.563	4	5	44	.12	Intercept = -13.0049	
10	4.00	4.00	8.0	1.401	4()	39	0.22	Corr. coeff. = 0.9993	
7	2.60	2.60	5.2	1.134	29	9	28	3.43		
5	1.60	1.60	3.2	0.894	20)	19	9.61		
		20(D ₂ /D ₂	4.1) (T + 1	/T_a)) 1-1					FLOW RATE CHART	
Qstd = 1/r IC = I[Sqr				/1a))-0]		6	60.00 -			
IC = I[Sq]	II(Pa/PSIC	1)(1810/1	a)]							
Qstd = sta	ndard flo	w rate					-0.00			
IC = correction			es			ť	50.00 -			
I = actual		-	00			<u>ତ</u>			y = 36.686x - 13.005	
m = calibi		_) asi	40.00 -			
b = calibra	-	-	t			spor				
Ta = actua	al temper	ature du	ring calil	oration (de	gK)	L C	30.00 -			
Pstd = act	ual press	ure durin	ng calibra	ation (mm	Hg)	l cha			× 1	
						vctua	40.00 - 30.00 - 20.00 -			
	-			npler flow:		٩.	20.00 -		•	
1/m((I)[S	Sqrt(298/	Tav)(Pav	/760)] - t))						
	1						10.00 -			
m = samp		ant								
b = samp		ері					0.00 -			
I = chart r Tav = dai	-	e temnor	otura					000	0.500 1.000 1.500 2.0	00
Pav = dai									Standard Flow Rate (m3/min)	
1 av – uali	iy averag	e pressui	U							
1										

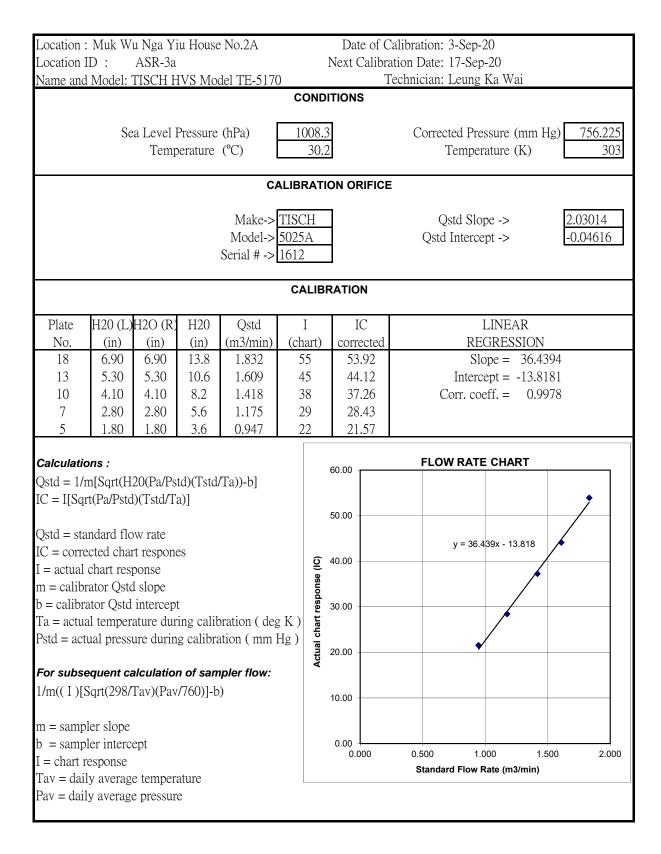
-										
Location :			e House	No.6					Calibration: 16-Sep-20	
Location 1		ASR-1				l	Next (ation Date: 30-Sep-20	
Name and	l Model: '	TISCH H	IVS Mo	del TE-517					Cechnician: Leung Ka Wai	
					CC)NDI	TION	S		
	C.	1 1		$(1, \mathbf{D}_{+})$		1000	T			150
	Se	a Level I		. ,		$\frac{1008}{20.5}$				756
		Temp	erature	(\mathbf{C})		29.5	ļ		Temperature (K)	303
				C	ALIBR	ΑΤΙΟ	ON OF	RIFICE	1	
				Make->	TISC	H	ļ		Qstd Slope -> 2.03014	
				Model->		A			Qstd Intercept -> -0.0461	6
				Serial # ->	1612					
					CA	LIBR	ΑΤΙΟ	N		
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι		I	C	LINEAR	
No.	(in)	(in)	(in)	(m3/min)	(cha			ected	REGRESSION	
18	6.10	6.10	12.2	1.726	52			.09	Slope = 37.9829	
13	5.00	5.00	10.0	1.565	4	5	44	.21	Intercept = -14.8140	
10	4.20	4.20	8.4	1.436	4()	39	0.30	Corr. coeff. = 0.9985	
7	2.50	2.50	5.0	1.113	29	9	28	3.49		
5	1.70	1.70	3.4	0.922	20)	19	9.65		
					ĺ					
		<u>مر/م</u>	د. 1) (۳-4-1	/T.a.)) 1-1					FLOW RATE CHART	
Qstd = 1/r IC = I[Sqr				/1a))-0]		6	60.00 -			.
IC = I[Sq]	II(Pa/PSIC	I)(1Sta/1	a)]							
Qstd = sta	ndard flo	w rate				c	-0.00		•	
Q sta = sta IC = corre			es			i	50.00 -			
I = actual		-	0.5			<u>ତ</u>			y = 37.983x - 14.814	
m = calibr	-	-) asr	40.00 -			
b = calibr	_	-	t			lods				
Ta = actua	al temper	ature du	ing calil	oration (de	gK)	er te	30.00 -			
Pstd = act	ual press	ure durin	ig calibra	ation (mm	Hg)	l cha			Ý	
						ctual	40.00 - 30.00 - 20.00 -			
	-			npler flow:		₹2	20.00 -		•	
1/m((I)[S	Sqrt(298/	Tav)(Pav	r/760)]-t))						
	1 1					1	10.00 -			
m = samp		4								
b = samp		ері					0.00 -			
I = chart r	-	a tamnar	oturo					000	0.500 1.000 1.500 2.0	00
Tav = dai Pav = dai									Standard Flow Rate (m3/min)	
1 av – ual	iy average	e pressui	C							
I										

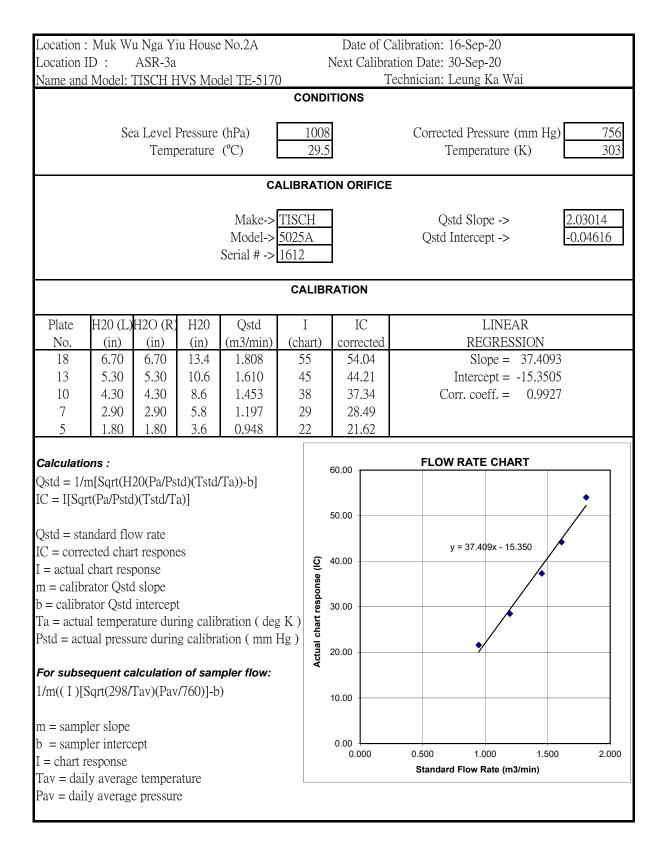
Location :	San Ul	k Ling V	illage Ho	ouse No.1			Date	of Ca	alibration: 18-Aug	g-20		
Location I	D :	ASR-2]	Next Ca	alibrat	tion Date: 2-Sep-	20		
Name and	Model:	TISCH H	IVS Mo	del TE-517	0			Te	echnician: Leung	Ka Wai		
					CC	ONDI	TIONS					
							7					
	Se	a Level I		. ,	10	06.2			Corrected Pre			
		Temp	erature	(°C)		27.3			Temper	ature (K)	3	300
				C	ALIBR	RATIO		FICE				
							1					
				Make->					Qstd Slo	-	2.03014	
				Model->					Qstd Interce	ept ->	-0.0461	6
				Serial # ->	1612]					
					C A		ATION					
					CA	LIDF	ATION					
Plate	H20 (L)	H2O (R)	H20	Qstd]	[IC			LINEAR		
No.	(in)	(in)	(in)	(m3/min)	(ch		correc			GRESSION		
18	6.50	6.50	13.0	1.786	5		52.4			ope = 36.3'		
13	5.30	5.30	10.6	1.615	4		44.5			ept = -12.92		
10	4.00	4.00	8.0	1.406	4		39.5		Corr. co	-		
7	2.90	2.90	5.8	1.200	3		30.6	55				
5	2.30	2.30	4.6	1.071	2		25.7					
Calculatio	ons :						60.00 -		FLOW RATE	ECHART		,
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	td)(Tstd	/Ta))-b]			00.00					
IC = I[Sqn	t(Pa/Pstd	l)(Tstd/T	a)]								•	
							50.00					
Qstd = sta	ndard flo	w rate										
IC = corrections	ected char	rt respon	es			<i>.</i>			y = 36.375	(- 12.927		
I = actual		-				e (IC	40.00 -			/		
m = calibr	-	-				suoc						
b = calibra	-	-				res	30.00			-		
	-		_	pration (de	- ·	Actual chart response (IC)						
Pstd = act	ual press	ure durin	ig calibra	ation (mm	Hg)	ual c						
_ ,						Acti	20.00 -					
For subse	-			-								
1/m((I)[S	Sqrt(298/	Tav)(Pav	r//60)]-b)			10.00 -					
-	lonalana											
m = samp		ant										
b = samp		σρι					0.00	20	0.500			
I = chart r Tav = dail	-	a tamnar	oturo				0.00	JU	0.500 1. Standard Flow I		500 2.0	00
Pav = dail Pav = dail		-										
i av – uall	y average	e pressui	C									

Location :			illage H	ouse No.1				Calibration:	-		
Location I	ID :	ASR-2]	Next Calibra	ation Date:	17-Sep-20		
Name and	Model: '	TISCH H	HVS Mo	del TE-517	0		Τ	echnician:	Leung Ka W	'ai	
					CC	DNDI	TIONS				
							_				
	Se	a Level I	Pressure	(hPa)	10	08.3		Correc	cted Pressure	(mm Hg)	756.225
		Temr	berature	(°C)		30.2	Ť	,	Temperature	(K)	303
		1					ł		1		
				C	ALIBR	ATIC					
				Make->	TISC	н	1	C	ostd Slope ->		2.03014
				Model->			+	-	Intercept ->		-0.04616
				Serial # ->		1		Qsiu			-0.04010
				5011a1 # ->	1012		1				
					CA	LIBR	ATION				
Plate	H20(L)	H2O (R)	H20	Qstd	Ι		IC		LINE	AR	
No.	(in)	(in)	(in)	(m3/min)	(cha		corrected		REGRES		
18	6.80	6.80	13.6	1.819	52		50.98		Slope =	33.3894	1
13	5.10	5.10	10.2	1.578	44		43.14		Intercept =		
10	4.00	4.00	8.0	1.401	39		38.24	C	Corr. coeff. =	0.9984	
7	2.60	2.60	5.2	1.101	28		27.45	C		0.770	I
5	1.60	1.60	3.2	0.894	21		20.59				
	1.00	1.00	5.2	0.074		1	20.37				h
Calculatio	ons :							FLO	W RATE CHA	RT	
Qstd = 1/r		$2\Omega(P_{2}/P_{3})$	htsT)(hts	/Ta))-b]			60.00				
IC = I[Squ				<i>[[u]]</i>							
IC – 1[54]		1)(1510/1	a)]				50.00				*
Ostil sta		4					50.00				
Qstd = sta											
IC = correction		-	es			ΰ	40.00		y = 33.389x - 9.5	503	
I = actual		-				se (I				≁	
m = calibr	-	-				üod					
b = calibra	_	-				res	30.00		/	/	
	-		_	oration (de		hart					
Pstd = act	ual press	ure durir	ig calibra	ation (mm	Hg)	ial c					
			-			Actu	40.00 30.00 20.00		*		
For subse	-			-							
1/m((I)[S	Sqrt(298/	Tav)(Pav	/760)]-t))							
							10.00				
m = samp	-										
b = samp	ler interc	ept					0.00				
I = chart r	response						0.000	0.500	1.000	1.500	2.000
Tav = dail	ly averag	e temper	ature					Standa	ard Flow Rate (m	13/min)	
Pav = dail	ly average	e pressui	e		l						

Location :	San Ul	k Ling V	illage H	ouse No.1			Date o	of Calib	oration: 16-Ser	b-20		
Location I		ASR-2	U]			n Date: 30-Ser			
Name and	Model:	TISCH H	IVS Mo	del TE-517	0			Tech	nician: Leung	Ka Wai		
					cc	ONDI	TIONS					
	C	т 11	D	$(1\mathbf{D})$		1000	T		C (1D	/	TT \	756
	Se	a Level I		. ,		$\frac{1008}{20.5}$	+		Corrected Pre		Hg)	756
		Temp	berature	$(^{\circ}\mathrm{C})$		29.5	1		Temper	rature (K)		303
				C	ALIBR	ATIC	ON ORIFI	CE				
				Make->]		Qstd Slo	pe ->	2.03	014
				Model->		A	+		Qstd Interce	ept ->	-0.04	4616
				Serial # ->	1612							
					CA	LIBF	ATION					
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι		IC			LINEAR		
No.	(in)	(in)	(in)	(m3/min)	(cha	art)	correcte	ed	RE	GRESSION	J	
18	6.60	6.60	13.2	1.794	52	2	51.09		Sle	ope = 33.6	5468	
13	5.20	5.20	10.4	1.595	44		43.23			ept = -9.5		
10	4.00	4.00	8.0	1.402	39		38.32		Corr. co	eff. = 0.9	9987	
7	2.50	2.50	5.0	1.113	23		27.51					
5	1.60	1.60	3.2	0.895	2	<u> </u>	20.63					h
Calculatio	ons :								FLOW RAT	E CHART		
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	std)(Tstd	/Ta))-b]			60.00					
IC = I[Sqn	t(Pa/Pstd	l)(Tstd/T	'a)]									
							50.00				/	
Qstd = sta												
IC = corrections		-	es			n	40.00		y = 33.64	7x - 9.599		
I = actual	-					se (IC	40.00			*		
m = calibr	_	-				Suod						
b = calibra	-	-		oration (de	σK)	tres	30.00					
	-		0	ation (mm	<i>,</i>	char						
1 sta – act	uur press	ure durm	ig canon		115)	stual	40.00					
For subse	equent ca	alculatio	n of san	pler flow:		Ă	20.00					
1/m((I)[S	Sqrt(298/	Tav)(Pav	/760)] - t))								
							10.00					
m = samp	_											
b = samp		ept					0.00					
I = chart r	-						0.000				.500	2.000
Tav = dail									Standard Flow	rate (m3/min)		
Pav = dail	y average	e pressur	C									







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

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-

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001299
CLIENT	ACTION UNITED ENVIRONMENT	
	SERVICES AND CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 6-JAN-2020
	KONG	DATE OF ISSUE : 10-JAN-2020
PROJECT	:	NO. OF SAMPLES : 1
		CLIENT ORDER ÷

General Comments

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

Signatories

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

Signatories	Position
Kichard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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

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

CLIENT

PROJECT

: HK2001299

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



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

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

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

Equipment Verification Results:

Verification Date:

27 & 31 December 2019

0.5354

0.9984

6 January 2020

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

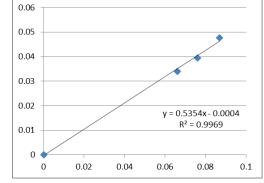
Linear Regression of Y or X

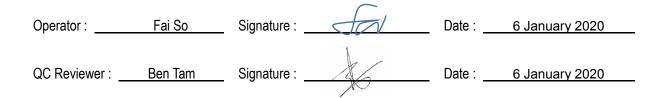
Slope (factor):	
Correlation Coefficient (R)	
Date of Issue	

Remarks:

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

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





TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, Kwa Location ID : Calibration Room						nung		of Calibration: 3-I libration Date: 3-N	
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressi Temperati		767.325 289
				CALI	BRATI	ON ORIFICE			
		Calibrat	Make-> Model-> ion Date->		SCH 25A 26-19		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	53 18 11 50 22	54.04 48.94 41.80 30.59 22.43	04 Slope = 2 94 Intercept = 2 80 Corr. coeff. = 59		
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope					00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 					0	0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000



Key

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

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

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

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

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

b: intercept m: slope

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001293					
CLIENT	ACTION UNITED ENVIRONMENT						
	SERVICES AND CONSULTING						
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1					
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 6-JAN-2020					
	KONG	DATE OF ISSUE : 10-JAN-2020					
PROJECT	:	NO. OF SAMPLES : 1					
		CLIENT ORDER +					

General Comments

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

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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

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CLIENT

PROJECT

: HK2001293

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



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

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

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

Equipment Verification Results:

Testing Date:

27&31 December 2019

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

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



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

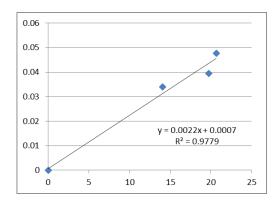
Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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





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

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, Kwa Location ID : Calibration Room						nung		of Calibration: 3-I libration Date: 3-N	
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressi Temperati		767.325 289
				CALI	BRATI	ON ORIFICE			
		Calibrat	Make-> Model-> ion Date->		SCH 25A 26-19		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	53 18 11 50 22	54.04 48.94 41.80 30.59 22.43	04 Slope = 2 94 Intercept = 2 80 Corr. coeff. = 59		
Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope					00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
 b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure 					0	0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000



Key

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

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

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

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

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b: intercept m: slope

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ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001300					
CLIENT	ACTION UNITED ENVIRONMENT						
	SERVICES AND CONSULTING						
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1					
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 6-JAN-2020					
	KONG	DATE OF ISSUE : 10-JAN-2020					
PROJECT	:	NO. OF SAMPLES : 1					
		CLIENT ORDER					

General Comments

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

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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CLIENT

PROJECT

: HK2001300

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



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

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	366410
Equipment Ref:	EQ110
Job Order	HK2001300

Standard Equipment:

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

Equipment Verification Results:

Testing Date:

27&31 December 2019

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

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



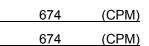
Slope (K-factor):	0.0022
Correlation Coefficient	0.9937
Date of Issue	6 January 2020

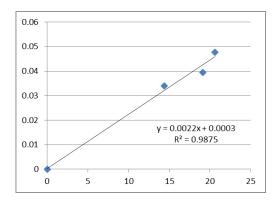
Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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





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

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

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



Key

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

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

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

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

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

b: intercept m: slope

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2001298					
CLIENT	ACTION UNITED ENVIRONMENT						
	SERVICES AND CONSULTING						
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1					
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 6-JAN-2020					
	KONG	DATE OF ISSUE : 10-JAN-2020					
PROJECT	:	NO. OF SAMPLES : 1					
		CLIENT ORDER +					

General Comments

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

Signatories

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

Signatories	Position
Richard Jong.	
Richard Fung	Managing Director

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

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

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

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

CLIENT

PROJECT

: HK2001298

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING :



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

Equipment Verification Report (TSP)

Equipment Calibrated:

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

Standard Equipment:

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

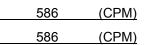
Equipment Verification Results:

Testing Date:

27&31 December 2019

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

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



Linear Regression of Y or X

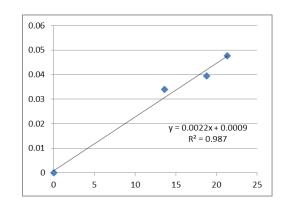
Slope (K-factor):	0.0022				
Correlation Coefficient	0.9935				
Date of Issue	6 January 2020				

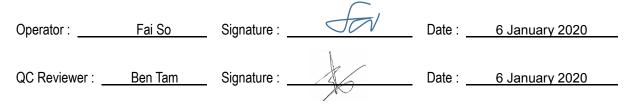
Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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





TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Gold King Industrial Building, Kwai Chung Location ID : Calibration Room					nung	Date of Calibration: 3-Dec-19 Next Calibration Date: 3-Mar-20			
					COND	ITIONS			
	Sea Level] Temp	Pressure perature	. ,	1	.023.1 16.4		Corrected Pressu Temperatu		767.325 289
				CALI	BRATI	ON ORIFICE			
		Calibrat	Make-> Model-> ion Date->	502	SCH 25A eb-19		Qstd Slope Qstd Intercept Expiry Date	->(2.0968 0.00065 -Feb-20
					CALIB	RATION			
Plate H20 No. (ir	(L)H2O (R) 1) (in)	H20 (in)	Qstd (m3/min)		I art)	IC corrected		INEAR RESSION	
18 6. 13 5. 10 4. 8 2. 5 1.	2 5.2 1 4.1 6 2.6	13.0 10.4 8.2 5.2 3.2	1.754 1.569 1.393 1.109 0.870	4	111 contented 53 54.04 48 48.94 41 41.80 30 30.59 22 22.43		Slope = 36.7338 Intercept = -9.6198 Corr. coeff. = 0.9986		
Calculations : Qstd = 1/m[Squ IC = I[Sqrt(Pa/ Qstd = standard IC = corrected I = actual chart m = calibrator (C Ta = actual ten Pstd = actual p For subsequen 1/m((I)[Sqrt(2 m = sampler she	Pstd)(Tstd/T I flow rate chart response Qstd slope Qstd intercep nperature du ressure durin t calculation (98/Tav)(Pay	ra)] es t ring cali ng calibr n of san	bration (de ation (mm apler flow:		00 90 90 90 90 90 90 90 90 90 90 90 90 9	.00	FLOW RATE C	CHART	
b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure						0.000	0.500 1.000 Standard Flow Rate	1.500 e (m3/min)	2.000



Key

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

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

RECALIBRATION DUE DATE:

February 5, 2020

	0e	rtifa	cate	of	Oal	iori	tion				
			Calibration	Certificati	on Informat	ion					
Cal. Date: February 5, 2019 Rootsmeter S/N: 438320 Ta: 293 °K											
Operator:	Jim Tisch					Pa:	753.1	mm Hg			
Calibration I	Model #:	TE-5025A	Cali	brator S/N:	1941			-			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]			
4	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)				
	1	1	2	1	1.4830	3.2	2.00				
	2	3	4	1	1.0430	6.4	4.00	1			
	3	5	6	1	0.9300	7.9	5.00]			
	4	7	8	1	0.8870	8.7	5.50]			
	5	9	10	1	0.7320	12.7	8.00				
				Data Tabula	tion]			
	Vstd Qstd		$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$			Qa	$\sqrt{\Delta H(Ta/Pa)}$				
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)				
	1.0036	0.6767	1.41	97	0.9958	0.6714	0.8821	1			
	0.9993	0.9581	2.00	78	0.9915	0.9506	1.2475	1			
	0.9973	1.0723	2.2448		0.9895	1.0640	1.3947]			
	0.9962	1.1231	2.3544		0.9884	1.1144	1.4628]			
	0.9908	1.3536	2.8395		0.9831	1.3431	1.7642				
		m=	2.096			m=	1.31298				
,	QSTD	b=	-0.00		QA	b=	-0.00040	1			
		r=	0.999	999		<u>r=</u>	0.99999]			
				Calculatio	ns	216/100418/04/10040244141824404404404404884494444]			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/T	a)	Va=	ΔVol((Pa-Δ	P)/Pa)	1			
	Qstd=	Vstd/∆Time	******		Qa=	Va/∆Time		1			
			For subsequ	ent flow ra	te calculatio	ns:		1			
	Qstd=	1/m ((Pa Pstd Tstd	-))-b)	Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$						
	Standard	Conditions			_						
Tstd:	298.15		de diving to the second se			RECA	LIBRATION				
Pstd:	760	mm Hg					nnual racalibrati	100			

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

Tisch Environmental, Inc. 145 South Miami Avenue

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b: intercept m: slope

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C200488 證書編號

ITEM TESTED / 送檢項目	(Job No. / 序引編號:IC19-1098)	Date of Receipt / 收件日期: 7 January 2020		
Description / 儀器名稱 :	Sound Level Meter (EQ011)			
Manufacturer / 製造商 :	Rion			
Model No. / 型號 :	NL-52			
Serial No. / 編號 :	01121362			
Supplied By / 委託者 :	Action-United Environmental Services and	d Consulting		
	Unit A, 20/F., Gold King Industrial Building,			
	35-41 Tai Lin Pai Road, Kwai Chung, N.T	Γ.		

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

DATE OF TEST / 測試日期 : 22 January 2020

TEST RESULTS / 測試結果

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

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

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

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

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

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

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C200488 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration using the internal standard (After Adjustment) was performed before the test 6.1.1.2 to 6.3.2.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

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

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

UUT Setting					d Value	UUT	IEC 61672		
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.		
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)		
30 - 130	L _A	А	Fast	94.00	1	* 91.3	± 1.1		
* Out of IEC 61672 Class 1 Space									

* Out of IEC 61672 Class 1 Spec.

6.1.1.2 After Adjustment

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

6.1.2 Linearity

	UU	Г Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.0 (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.

E-mail/電郵: callab@suncreation.com

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

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C200488 證書編號

6.2 Time Weighting

UUT Setting					Applied Value		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.
Storistic LA Rest						94.0	± 0.3

6.3 Frequency Weighting

6.3.1 A-Weighting

		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 _A	Α	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.6	-4.3 (+3.0 ; -6.0)

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	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.8	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	91.0	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.6	-6.2 (+3.0 ; -6.0)

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



Certificate of Calibration 校正證書

Certificate No. : C200488 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 12912

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

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

Note :

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

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

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C204359 證書編號

ITEM TESTED / 送檢马	百百	(Job No. / 序引編號:IC20-1324)	Date of Receipt / 收件日期: 30 July 2020
Description / 儀器名稱	:	Sound Level Meter (EQ013)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52	
Serial No. / 編號	:	00921191	
Supplied By / 委託者	:	Action-United Environmental Services and Co	onsulting
		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 : 5 August 2020

TEST RESULTS / 測試結果

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

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

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

Tested By 測試

K P Cheuk

Assistant Engineer

K C Lee Engineer

Certified By 核證 Date of Issue 簽發日期 :

11 August 2020

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

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

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C204359 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	C200258
CL281	Multifunction Acoustic Calibrator	CDK1806821

- 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	93.6	± 1.1

6.1.2 Linearity

	UU	Г Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

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

		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	93.6	Ref.
			Slow			93.6	± 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.



Certificate of Calibration 校正證書

Certificate No. : C204359 證書編號

6.3 Frequency Weighting

6.3.1 <u>A-Weighting</u>

		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_A	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.4	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.8	$+1.2 \pm 1.6$
					4 kHz	94.6	$+1.0 \pm 1.6$
					8 kHz	92.5	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.1	-4.3 (+3.0 ; -6.0)

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	92.8	-0.8 ± 1.5
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	0.0 ± 1.4
					500 Hz	93.6	0.0 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	93.4	-0.2 ± 1.6
					4 kHz	92.8	-0.8 ± 1.6
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					12.5 kHz	87.2	-6.2 (+3.0 ; -6.0)

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



Certificate of Calibration 校正證書

Certificate No. : C204359 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 12910

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	01 dB ·	63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
- Oncertainties of Applied Value.	94 uD .		
			$\pm 0.30 \text{ dB}$
		1 kHz	$\pm 0.20 \text{ dB}$
		2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
		8 kHz	$:\pm 0.45 \text{ dB}$
		12.5 kHz	$\pm 0.70 \text{ dB}$
	104 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C201348 證書編號

ITEM TESTED / 送檢項	目目	(Job No. / 序引編號:IC19-1098)	Date of Receipt / 收件日期: 27 February 2020
Description / 儀器名稱	:	Sound Level Calibrator (EQ085)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NC-73	
Serial No. / 編號	:	10655561	
Supplied By / 委託者	:	Action-United Environmental Services a	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	.Т.

TEST CONDITIONS / 測試條件

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 : 7 March 2020

TEST RESULTS / 測試結果

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

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

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

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

Tested By 測試

H T Wong

Technical Officer

K C Lee Engineer

2

Certified By 核證

Date of Issue 簽發日期 ÷

10 March 2020

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

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

Sun Creation Engineering Limited – Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門與安里—號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com Page 1 of 2



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C201348 證書編號

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

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

<u>Certificate No.</u> C193756 CDK1806821 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	94.2	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.958	1 kHz ± 6 %	± 1

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

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

Note :

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

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

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



ALS Technichem (HK) Pty Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street, Kwai Chung N.T., Hong Kong T: +852 2610 1044 | F: +852 2610 2021

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT:	BEN TAM ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING	WORK ORDER:	HK2023842
ADDRESS:	RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG KONG	SUB-BATCH: LABORATORY: DATE RECEIVED: DATE OF ISSUE:	0 HONG KONG 26-Jun-2020 06-Jul-2020

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature
Brand Name/ Model No.:	YSI Professional DSS
Serial No./ Equipment No.:	15H102620/ 15H103928 (EQW018)
Date of Calibration:	06-July-2020

GENERAL COMMENTS

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.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.

SUB-BATCH: DATE OF ISSUE: CLIENT:0 06-Jul-2020 ACTION UNITED ENVIRONMENT SERVICES AND CONSULTINGEquipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:Multifunctional Meter YSI Professional DSSFind Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:Multifunctional Meter O6-July-2020Date of Next Calibration:06-October-2020	WORK ORDER:	HK2023842		ALS
Brand Name/ Model No.: Serial No./ Equipment No.: YSI Professional DSS 15H102620/ 15H103928 (EQW018)	DATE OF ISSUE:	06-Jul-2020	T SERVICES AND CONSULTING	
Model No.: Serial No./ Equipment No.: YSI Professional DSS Serial No./ 15H102620/ 15H103928 (EQW018)	• • •	Multifunctional Meter		
Equipment No.:	•	YSI Professional DSS		
	•	15H102620/ 15H103928 (EQ)	W018)	
		06-July-2020	Date of Next Calibration:	06-October-2020

PARAMETERS:

Conductivity

Method Ref: APHA (21st edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µ S/cm)	Tolerance (%)	
146.9	151.0	+2.8	
6667	6238	-6.4	
12890	12930	+0.3	
58670	56782	-3.2	
	Tolerance Limit (%)	±10.0	

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.97	3.10	+0.13
5.92	5.86	-0.06
7.42	7.38	-0.04
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (21st edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)	
4.0	3.91	-0.09	
7.0	7.10	+0.10	
10.0	10.06	+0.06	
	Tolerance Limit (pH unit)	±0.20	

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

WORK ORDER: HK2023842	LS
SUB-BATCH:0DATE OF ISSUE:06-Jul-2020CLIENT:ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING	
Equipment Type: Multifunctional Meter	
Brand Name/ YSI Professional DSS Model No.:	
Serial No./ 15H102620/ 15H103928 (EQW018) Equipment No.:	
Date of Calibration:06-July-2020Date of Next Calibration:06-October-2020	

PARAMETERS:

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
0	0.12		
4	4.17	+4.3	
40	40.21	+0.5	
80	80.26	+0.3	
400	409.76	+2.4	
800	810.22	+1.3	
	Tolerance Limit (%)	±10.0	

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.02	+0.2
20	19.88	-0.6
30	29.97	-0.1
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

5

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

WORK ORDER:	HK2023842		C	ALS	
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 06-Jul-2020 ACTION UNITED ENVIRON	MENT SERVICES AND CONSULTING			
Equipment Type:	Multifunctional Meter				
Brand Name/ Model No.: Serial No./ Equipment No.:	YSI Professional DSS				
	15H102620/ 15H103928 (EQW018)				
Date of Calibration:	06-July-2020	Date of Next Calibration:	06-October-2020		
PARAMETERS:					
Temperature	Method Ref: Section 6 of In	ternational Accreditation New Zealar	nd Technical		

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.5	10.2	-0.3
20.0	19.8	-0.2
39.5	40.2	+0.7
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganic

Page 4 of 4

Work Order:	HK1946056
Sub-batch:	0
Date of Issue:	28-Oct-2019
Client:	ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING

Reference Equipment:

Model: SonTek IQ Standard Serial Number : IQ1217004

Equipment to be calibrated:

Equipment Type:	Flow Meter		
Brand Name:	Global Water		
Model No.:	FP211		
Serial No.:	1449006330		
Equipment No.:			
Calibration Factor:	314		

Date of Calibration: 09 October, 2019

Parameters: The calibration of flow meter is verified with standard flow meter on site by AUES Staff.

Flow rate

Trial	Reading of Reference Equipment (m/s)	Reading of Equipment to be calibrated (m/s)
10 No. 66 J 20	SonTek IQ Standard Serial No: IQ1217004	Global Water FP211 Serial No. 1449006330
		81
1	0.11	0.1
2	0.19	0.2
3	0.46	0.4
4	0.77	0.8
5	1.02	1.0
6	1.17	1.1

Mr. Fung Lim Chee, Richard Managing Director, Life Sciences Hong Kong



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

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

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

HOKLAS Accredited Laboratory

「香港實驗所認可計劃」認可實驗所

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

Environmental Testing 環境測試

This laboratory is accredited in accordance with the recognised International Standard ISO / IEC 17025 : 2005. 本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。 This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 這項認可資格演示在指定範疇所需的技術能力及實驗所質量管理體系的運作 quality management system (see joint IAF-ILAC-ISO Communiqué). (見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處根據認可處執行機關的權限在此蓋上通用印章

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

Registration Number : HCKLAS 066 註冊號碼:



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

∟ 000552



Appendix F

Event and Action Plan of Air Quality, Noise and Water Quality

Event and Action Plan for air quality

F arran 4	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 and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor	 Rectify any unacceptable practice; Amend working methods if appropriate. 	
Action level exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; 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 on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.	
Limit level exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; 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 and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; 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 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; If exceedance stops, cease additional monitoring. 	 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; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 	

Note: ET – Environmental Team IEC – Independent Environmental Checker ER – Engineer's Representative

Event and Action Plan for Construction Noise

Enort	Action				
Event	ET	IEC	ER	Contractor	
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness 	3. Supervise the implementation of	failure in writing;2. Notify Contractor;3. Require Contractor to propose remedial measures for the analyzed	 Submit noise mitigation proposals to IEC and ER; 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; If exceedance stops, cease additional monitoring. 	actions; 2. Review Contractors remedial actions whenever necessary to assure their	 failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; 4. Ensure remedial measures properly 	 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; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 	

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Event and Action Plan for Water Quality

Event			Action	
Event	ET	IEC	ER	Contractor
Action level exceedance for one sampling day	 Inform IEC, Contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; and Discuss remedial measures with IEC and Contractor and ER. 	 Discuss with ET, ER and Contractor on the implemented mitigation measures; Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with IEC, ET and Contractor on the implemented mitigation measures; Make agreement on the remedial measures to be implemented; Supervise the implementation of agreed remedial measures. 	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and Implement the agreed mitigation measures.
Action level exceedance for more than one consecutive sampling days	 Repeat in-situ measurement on next day of exceedance to confirm findings; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss remedial measures with IEC, contractor and ER Ensure remedial measures are implemented 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the proposed mitigation measures; Make agreement on the remedial measures to be implemented ; and Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. 	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and Implement the agreed mitigation measures.
Limit level exceedance for one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Inform IEC, contractor and ER; Rectify unacceptable practice; Check monitoring data, all plant, equipment and Contractor's working methods; Consider changes of working methods; Discuss mitigation measures with IEC, ER and Contractor; and Ensure the agreed remedial measures are implemented 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the implemented remedial measures; Request Contractor to critically review the working methods; Make agreement on the remedial measures to be implemented; and Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. 	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and Implement the agreed remedial measures.
Limit level exceedance for more than one consecutive sampling days	 Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the implemented remedial measures; Request Contractor to critically review the working methods; Make agreement on the remedial measures to be implemented; Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and Implement the agreed remedial measures; and As directed by the ER, to slow down or stop all or part of the construction activities until no exceedance of Limit level.

Note: ET - Environmental Team IEC - Independent Environmental Checker ER - Engineer's Representative Each step of actions required shall be implemented within 1 working day unless otherwise specified or agreed with EPD.



Appendix G

Monitoring Schedules of the Reporting Month and Coming Month



Impact Monitoring Schedule of Air Quality, Noise and Water Quality – September 2020

	Data	NOISE	AIR QUALITY	MONITORING	WATED OUAL ITY
	Date	MONITORING	1-HOUR TSP	24-HOUR TSP	WATER QUALITY
Tue	1-Sep-20			✓	
Wed	2-Sep-20	✓	\checkmark		✓
Thu	3-Sep-20				
Fri	4-Sep-20				✓
Sat	5-Sep-20				
Sun	6-Sep-20				
Mon	7-Sep-20			✓	✓
Tue	8-Sep-20	✓	\checkmark		
Wed	9-Sep-20				✓
Thu	10-Sep-20				
Fri	11-Sep-20				✓
Sat	12-Sep-20			✓	
Sun	13-Sep-20				
Mon	14-Sep-20	√	√		✓
Tue	15-Sep-20				
Wed	16-Sep-20				✓
Thu	17-Sep-20				
Fri	18-Sep-20			✓	✓
Sat	19-Sep-20		\checkmark		
Sun	20-Sep-20				
Mon	21-Sep-20				✓
Tue	22-Sep-20				
Wed	23-Sep-20				✓
Thu	24-Sep-20			√	
Fri	25-Sep-20	✓	\checkmark		✓
Sat	26-Sep-20				
Sun	27-Sep-20				
Mon	28-Sep-20				✓
Tue	29-Sep-20			✓	
Wed	30-Sep-20	✓	\checkmark		✓

✓	Monitoring Day
	Sunday or Public Holiday



Impact Monitoring Schedule of Air Quality, Noise and Water Quality – October 2020

	Date	NOISE	AIR QUALITY	MONITORING	WATED OUAL ITY
	Date	MONITORING	1-HOUR TSP	24-HOUR TSP	WATER QUALITY
Thu	1-Oct-20				
Fri	2-Oct-20				
Sat	3-Oct-20				✓
Sun	4-Oct-20				
Mon	5-Oct-20			√	✓
Tue	6-Oct-20	✓	√		
Wed	7-Oct-20				✓
Thu	8-Oct-20				
Fri	9-Oct-20			✓	✓
Sat	10-Oct-20		✓		
Sun	11-Oct-20				
Mon	12-Oct-20				✓
Tue	13-Oct-20				
Wed	14-Oct-20			√	✓
Thu	15-Oct-20	√	\checkmark		
Fri	16-Oct-20				✓
Sat	17-Oct-20				
Sun	18-Oct-20				
Mon	19-Oct-20				✓
Tue	20-Oct-20			✓	
Wed	21-Oct-20	√	√		✓
Thu	22-Oct-20				
Fri	23-Oct-20				✓
Sat	24-Oct-20			✓	
Sun	25-Oct-20				
Mon	26-Oct-20				
Tue	27-Oct-20	✓	√		✓
Wed	28-Oct-20				
Thu	29-Oct-20				✓
Fri	30-Oct-20			✓	
Sat	31-Oct-20				✓

✓	Monitoring Day
	Sunday or Public Holiday



Appendix H

Monitoring Data

- 24-hour TSP Air Quality
- Noise
- Water Quality



Air Quality (24-hour TSP)



					24-	Hour	TSP N	Aonitor	ing Data	a for ASR	-1				
DATE	SAMPLE NUMBER		APSED TI	ME	CHA	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE		FILTER W	EIGHT (g)	DUST WEIGHT COLLECTED	24-Hr TSP $(\mu g/m^3)$
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	
1-Sep-20	26162	22928.35	28.35 22952.36 1440.60		31	32	31.5	28.7	1006.2	1.14	1641	2.6400	2.7164	0.0764	47
7-Sep-20	26172	22952.36	22976.36	1440.00	31	32	31.5	28.1	1007.4	1.21	1737	2.6521	2.6942	0.0421	24
12-Sep-20	26195	22976.36	23000.36	1440.00	30	32	31.0	28.2	1011	1.19	1719	2.6530	2.6936	0.0406	24
18-Sep-20	*		23024.36	1440.00	30	32	31.0	28.3	1009.1	1.20	1728	2.8155	2.8503	0.0348	20
24-Sep-20	26240	23024.36	23048.36	1440.00	32	32	32.0	28.5	1010.6	1.23	1766	2.6840	2.7391	0.0551	31
29-Sep-20	26320	23048.36	23072.38	1441.20	32	32	32.0	26.9	1011.5	1.23	1771	2.6840	2.7453	0.0613	35

					24-	Hour	TSP N	Aonitor	ring Data	ofor ASR	-2				
DATE	SAMPLE NUMBER		APSED TII	ME	CHA	RT REAI	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER W		DUST WEIGHT COLLECTED	24-Hr TSP $(\mu g/m^3)$
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	
1-Sep-20	26163	20332.36	32.36 20356.36 1440.00		30	31	30.5	28.7	1006.2	1.19	1707	2.6565	2.7190	0.0625	37
7-Sep-20	26173	20356.36	20380.36	1440.00	30	31	30.5	28.1	1007.4	1.18	1706	2.6460	2.6717	0.0257	15
12-Sep-20	26196	20380.36	20404.36	1440.00	30	32	31.0	28.2	1011	1.20	1729	2.6542	2.6919	0.0377	22
18-Sep-20	*		20428.36	1440.00	30	32	31.0	28.3	1009.1	1.20	1728	2.6874	2.7127	0.0253	15
24-Sep-20	26241	20428.36	20452.36	1440.00	32	32	32.0	28.5	1010.6	1.23	1771	2.6736	2.6974	0.0238	13
29-Sep-20	26321	20452.36	20476.38	1441.20	32	33	32.5	26.9	1011.5	1.25	1798	2.7001	2.7237	0.0236	13

					24-]	Hour '	TSP M	Ionitor	ing Data	for ASR-	3a				
DATE	SAMPLE NUMBER		APSED TI	ME	CHA	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER W	EIGHT (g)	DUST WEIGHT COLLECTED	24-Hr TSP $(\mu g/m^3)$
		INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	
1-Sep-20	26164	14129.28	.28 14152.68 1404.00		31	32	31.5	28.7	1006.2	1.24	1738	2.6425	2.7099	0.0674	39
7-Sep-20	26174	14152.68	14175.88	1392.00	31	32	31.5	28.1	1007.4	1.24	1721	2.6453	2.7056	0.0603	35
12-Sep-20	26197	14175.88	14199.43	1413.00	30	32	31.0	28.2	1011	1.22	1730	2.6409	2.6833	0.0424	25
18-Sep-20	1		14223.20	1426.20	30	32	31.0	28.3	1009.1	1.23	1758	2.6477	2.6871	0.0394	22
24-Sep-20	26312	14223.20	14247.25	1443.00	34	34	34.0	28.5	1010.6	1.31	1894	2.6594	2.6884	0.0290	15
29-Sep-20	26322	14247.25	14271.01	1425.60	32	33	32.5	26.9	1011.5	1.28	1818	2.7060	2.7923	0.0863	47



Noise

								Noi	se Meas	urement	Results (dB(A)) o	of CN-1								
Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq _{30min}	Façade Collection (*)
2-Sep-20	11:21	67.8	70	62.2	67.6	69.7	62	64.2	66.5	60.5	65.2	68.7	60.4	63.7	65.6	58.7	62	63.5	57.9	66	69
8-Sep-20	13:04	62.6	62.4	59.3	72.1	70.1	62.6	71.4	69	61.5	66.5	65.1	61	68.5	68.5	61.5	71.5	71.6	63	70	73
14-Sep-20	14:09	59.6	61.4	57.2	59.3	60.9	56.8	61.8	63.2	60.6	60.5	62.4	59.8	62.7	64.8	60.4	59.8	61.8	58.5	61	64
25-Sep-20	9:28	61.8	63.2	60.5	62.4	63.9	61.3	62.9	64.1	61.5	59.8	60.1	58.2	58.3	59.7	57.5	60.5	62.6	59.5	61	64
30-Sep-20	15:25	65.8	69.3	54.5	66.5	70.5	56.1	67.6	70.3	54.4	68.9	71	56.8	66.8	69.4	55.9	69.7	72.8	57.9	68	71

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

								Noi	se Meas	urement	Results (dB(A)) o	of CN-2								
Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	$5^{ m th}$ Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq _{30min}	Façade Collection (*)
2-Sep-20	10:44	63.2	67.5	51.3	63.7	67.5	48.3	65	68.7	53.2	64.5	68.6	50.3	64	68.7	49.5	64.8	68.7	48.8	64	67
8-Sep-20	13:41	65	66.3	50.2	63.7	66.5	50.7	63.5	66.6	51.6	63.7	66	52.5	62.2	65.4	53.4	64.2	67	54.3	64	67
14-Sep-20	13:28	62.3	66.8	53.4	64.5	67.6	54.7	62.5	65.5	53.2	64.8	68.2	55	65.2	68.6	55.7	63.7	64.5	53.5	64	67
25-Sep-20	10:13	64.4	67.5	56.8	63.8	66.8	55.7	62.4	66.5	54.2	66.7	69.5	58.6	66	69.2	57.3	62.3	66.4	54.5	65	68
30-Sep-20	14:48	63.3	67.1	50.8	63.1	65.5	47.9	62.4	64	46.8	61.2	66.6	48.7	61.5	64.5	45.5	63.7	66	48.3	63	66

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

								Noi	se Meast	ırement	Results (dB(A)) o	of CN-3								
Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq _{30min}	Façade Collection (*)
2-Sep-20	10:03	56.9	59.7	52.5	57.5	58.8	51.7	55.2	58.7	52.8	57.7	58.4	51.9	56.4	57.1	51.9	56.1	58.4	51.9	57	60
8-Sep-20	14:21	55.4	58.4	47.1	55.6	57.6	48.1	54.7	57.5	47.7	54.5	58.6	47.6	56.2	59.9	47.5	55.3	58.2	47.1	55	58
14-Sep-20	11:36	56.2	58.6	51.6	55.7	57.5	51.2	58.4	60.6	52.3	56.8	56.9	55.4	55.9	56.7	55.1	56.5	58.2	55.5	57	60
25-Sep-20	10:52	57.8	61	52.3	58.4	61.5	53	56.5	58.6	52.4	55.8	58.2	52.1	57.3	60.2	53.3	56.9	60.4	52.8	57	60
30-Sep-20	10:25	54.7	58.5	49	56.6	60.7	51.6	58.5	59.7	51.7	54.5	58	50.8	55.7	58.6	50.7	54.8	56	48.5	56	59

(*) A façade correction of +3dB(A) has been added according to acoustical principles and EPD guidelines.

								Nois	se Meast	ırement	Results (dB(A)) o	of CN-4							
Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq _{30min}
2-Sep-20	9:26	56.8	59.2	43.0	54.9	56.7	42.7	56.8	60.6	42.6	57.7	59.4	43.3	58.5	61.7	43.4	58.6	60.2	43.0	57
8-Sep-20	14:58	63.4	67.9	43.6	61.6	66.0	43.9	59.5	63.0	45.6	58.4	62.5	45.5	60.7	63.3	44.9	59.4	62.0	44.8	61
14-Sep-20	10:41	61.5	65.2	46.2	62.4	65.9	45.8	61.1	64.2	45.5	58.9	63.2	43.6	58.6	62.1	43.8	62.6	65.4	44.8	61
25-Sep-20	11:28	60.3	65.0	46.8	63.8	66.5	49.1	57.5	56.8	46.3	58.5	60.8	47.2	59.8	61.5	48.6	60.0	64.4	47.2	60
30-Sep-20	11:01	58.5	62.6	45.8	59.6	62.3	43.6	57.5	61.5	44.5	58.6	61.7	43.7	58.8	60.6	42.5	58.7	62.9	42.6	59



Water Quality



Water Quality Impact Monitoring Result for M1

Date	2-Sep-20														
Location	Time	Depth (m)	Temp (oC)	Flow V	/elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salinity	SS(m	ıg/L)
M1	0.20	0.12	25.6	< 0.1	<0.1	6.51	6.48	89.3	88.7	2.45	2.2	8.25	0.04 0.04	4	4.0
111	9:30	0.15	25.6	< 0.1	<0.1	6.45	0.48	88.1	00.7	2.07	2.5	8.25	0.04	4	4.0

Date	4-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	/elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ity (NTU)	pН	Salinity	SS(mg/L)
M1	9:35	0.12	26.7 26.7	< 0.1	<0.1	11.03	11.04	148.3	148.4	2.04	2.0	9.09	0.07	3 3.0
1011	9.33	0.15	26.7	< 0.1	<0.1	11.04	11.04	148.4	140.4	1.94	2.0	9.09	0.07	3 3.0

Date	7-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	elocity (m/s)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salinity	SS(mg/L)
M1	9:30	0.12	25.5	< 0.1	<0.1	6.58	6.61	86.7	87.0	2.68	2.4	7.50	5 0.04 0.04	3 35
1011	9.30	0.13	25.5	< 0.1	<0.1	6.63	6.61	87.2	87.0	2.06	2.4	7.50 /.	0.04	4 3.3

Date	9-Sep-20															
Location	Time	Depth (m)	Temp (oC)	Flow V	Velocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salin	ity	SS(1	mg/L)
M1	9:30	0.12	26.3 26.3	< 0.1	<0.1	6.41	6 17	83.6	84.2	1.93	1.0	7.50	0.04	0.04	4	2.0
M1	9.30	0.15	26.3 20.5	< 0.1	<0.1	6.52	6.47	84.7	04.2	1.69	1.8	7.50	0.04).04	2	3.0

Date	11-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	/elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	pH	Salinity	SS(mg/L)
M1	0.20	0.12	25.5	< 0.1	-0.1	6.71	(72)	89.3	90 F	0.96	1.0	8.30	0.05 0.05	3 20
M1	9:20	0.13	25.5	< 0.1	<0.1	6.75	0.75	89.6	89.5	1.06	1.0	8.30	3.3 0.05 0.05	3 3.0

Date	14-Sep-20													
Location	Time	Depth (m)	Temp (oC)		elocity (m/s)	DO (I	mg/L)	DO	(%)	Turbid	ity (NTU)	pН	Salinity	SS(mg/L)
M1	0.20	0.12	26.3	< 0.1	-0.1	6.48	6 40	85.4	95 C	6.72	6.6	8.00 8.0	0.04	6
M1	9:30	0.13	26.3 26.3	< 0.1	<0.1	6.49	6.49	85.7	85.0	6.44	6.6	8.00	0.04	6 6.0

Date	16-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	Velocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	pН	Salinity	SS(mg/L)
M1	9:30	0.15	27.1	< 0.1	<0.1	5.69	5 70	74.8	74.0	7.1	7 1	9.00 9.0	0.05	8 7.0
IVI I	9:50	0.15	27.1	< 0.1	<0.1	5.7	5.70	74.9	74.9	7.04	/.1	9.00	0.05	6 7.0



Date	18-Sep-20															
Location	Time	Depth (m)	Temp	(oC)	Flow V	/elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ity (NTU)	pН	Salinity	SS(m	g/L)
M1	0.35	0.14	26.3	26.2	< 0.1	<0.1	5.68	5 60	74.6	747	8.23	76	8.50	0.04 0.04	8	0 5
M1	9:35	0.14	26.3	26.3	< 0.1	<0.1	5.69	5.69	74.8	/4./	6.91	/.0	8.50	0.04 0.04	9	8.5

Date	21-Sep-20														
Location	Time	Depth (m)	Temp (o	DC)	Flow V	/elocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salinity	SS(mg/L)
M1	0.20	0.12	25.5	55	< 0.1	<0.1	5.92	5.93	78.2	70 /	6.03	65	9.30	0.02 0.02	8 75
IVI I	9:30	0.15	25.5	23.3	< 0.1	<0.1	5.93	5.95	78.5	/8.4	6.95	0.5	9.30	0.02	7 7.3

Date	23-Sep-20														
Location	Time	Depth (m)	Temp (oC)	Flow V	Velocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	pH	Salinit	у	SS(mg/L)
M1	0.25	0.12	26.2 26.2	< 0.1	<0.1	5.78	5 70	77.1	77.0	4.64	19	9.40	0.05	05	7 7.0
1011	9.23	0.15	26.2	< 0.1	<0.1	5.8	5.19	77.3	11.2	4.92	4.8	9.40	0.05	05	7

Date	25-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	/elocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidit	ty (NTU)	pН	Salinity	SS(mg/L)
M1	9:30	0.12	26.3 26.3	< 0.1	-0.1	6.1	6.20	74.8	76.6	26.9	200	8.60	6 0.03 0.02	12 12.0
IVI I	9:50	0.15	26.3 20.5	< 0.1	<0.1	6.3	6.20	78.4	/0.0	26.2	26.6	8.60 8.	6 0.03 0.03	12 12.0

Date	28-Sep-20													
Location	Time	Depth (m)	Temp (oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salinity	SS(mg/L)
M1	12.10	0.12	27.9 27.0	< 0.1	-0.1	6.68	6.60	88.6	00 7	22	01 7	9.50	0.07	15
M1	15:10	0.13	27.9	< 0.1	<0.1	6.69	6.69	88.7	00.7	21.3	21.7	9.50	0.07	14 14.5

Date	30-Sep-20														
Location	Time	Depth (m)	Temp ((oC)	Flow V	/elocity (m/s)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	pН	Salinity	SS(mg/L)
M1	12.25	0.12	27.9	27.0	< 0.1	-0.1	7	7.00	92.9	02.8	20.5	20.5	7.56	0.07	18 17.5
IVI I	15:25	0.15	27.9	21.9	< 0.1	<0.1	6.99	7.00	92.7	92.8	20.4	20.5	7.56	0.07	17 17.5

Action Level exceedance
Limit Level exceedance



Water Quality Impact Monitoring Result for M2

Date	2-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	velocity (m/s)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	pł	H	Saliı	nity	SS(r	ng/L)
M2	10:10	0.02(#)																

Date	4-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	velocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2	10:30	0.00(#)																

Date	7-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	velocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(1	ng/L)
M2	10:15	0.00(#)																

Date	9-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10:15	0.00(#)																

Date	11-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10:05	0.00(#)																

Date	14-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(r	ng/L)
M2	10:45	0.00(#)																

Date	16-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
MO	10.15	0.12	27.4	27.4	< 0.1	<0.1	6.05	6.06	76.4	765	354	2(1 5	8.40	Q /	0.05	0.05	179	100.0
M2	10:15	0.15	27.4	27.4	< 0.1	<0.1	6.07	6.06	76.5	76.5	369	361.5	8.40	0.4	0.05	0.05	181	180.0

Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery



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Date	18-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(1	ng/L)
M2	10:20	0.02(#)			<0.1													

Date	21-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	elocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2	9:55	0.02(#)																

Date	23-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10:00	0.00(#)																

Date	25-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	velocity (m/s)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10:10	0.00(#)						-										

Date	28-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(1	ng/L)
M2	13:50	0.00(#)																

Date	30-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow V	velocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2	13:50	0.01(#)																

Remarks: (#) During the water monitoring, the channel of M2 was observed dried up and water sampling was unable be carried out;

 Action Level exceedance

 Limit Level exceedance



Water Quality Impact Monitoring Result for M3

Date	2-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10:20	2.42	27.9	27.0	< 0.1	<0.1	6.44	6 1 1	88.1	88.0	5.17	5 1	8.15	80	0.0	0.04	6	6.0
M3	10.20	2.43	27.9	21.9	< 0.1	<0.1	6.43	0.44	87.9	88.0	5.12	5.1	8.15	0.2	0.0	0.04	6	0.0

Date	4-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(r	mg/L)
M2	10.40	2.44	27.9	27.0	< 0.1	-0.1	7.09	7 1 2	95.3	96.1	5.08	50	8.82	00	0.1	0.06	7	65
M3	10:40	2.44	27.9	27.9	< 0.1	<0.1	7.15	1.12	96.8	90.1	5.25	5.2	8.82	8.8	0.1	0.06	6	0.5

Date	7-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p]	H	Sali	nity	SS(1	mg/L)
M3	10:25	2.42	27.3	27.2	< 0.1	<0.1	5.94	5.04	79.1	79.2	3.71	25	7.20	7.2	0.0	0.02	3	25
N15	10:25	2.45	27.3	21.5	< 0.1	<0.1	5.93	5.94	79.2	19.2	3.26	5.5	7.20	1.2	0.0	0.02	4	5.5

Date	9-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
М3	10.25	2.42	27.5	27.5	< 0.1	-0.1	6.09	6 10	79.6	80.0	3.61	2.4	7.40	74	0.0	0.02	4	2.0
M15	10:25	2.43	27.5	27.3	< 0.1	<0.1	6.15	0.12	80.3	80.0	3.15	5.4	7.40	7.4	0.0	0.02	2	3.0

Date	11-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(r	ng/L)
M3	10:15	2.43	26.2 26.2	26.2	<0.1	< 0.1	6.4 6.44	6.42	84.9 85.4	85.2	2.94 3.1	3.0	7.20 7.20	7.2	0.0	0.02	23	2.5

Date	14-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p]	H	Sali	nity	SS(r	ng/L)
M3	10.25	2.42	27.7	777	< 0.1	-0.1	6.42	6.43	85.4	055	3.83	26	7.80	7.8	0.0	0.02	3	2.0
M15	10:25	2.43	27.7	21.1	< 0.1	<0.1	6.43	0.45	85.5	83.3	3.36	3.6	7.80	7.8	0.0	0.03	3	3.0

Date	16-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	velocity (m/s)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
M3	10:25	2.50	28.3	<u> </u>	0.1	0.1	5.06	5.07	65.0	65 1	5.1	5.2	8.60	86	0.0	0.02	5	5 5
1013	10.23	2.30	28.3	20.5	0.1	0.1	5.07	5.07	65.1	65.1	5.2	5.2	8.60	8.6	0.0	0.02	6	5.5



Date	18-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
M3	10:30	2.50	27.1	27.1	< 0.1	<0.1	5.7	5 71	75.5	757	5.5	5 5	8.10	9.1	0.0	0.02	9	9.0
IVI 5	10.50	2.30	27.1	27.1	< 0.1	<0.1	5.72	5.71	75.9	15.1	5.45	5.5	8.10	0.1	0.0	0.02	9	9.0

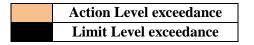
Date	21-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M2	10.05	2.45	27.2	27.2	< 0.1	-0.1	6.08	6.09	80.8	<u>91 0</u>	4.17	27	8.50	05	0.0	0.04	4	15
M3	10:05	2.43	27.2	21.2	< 0.1	<0.1	6.09	0.09	81.1	81.0	3.16	5.7	8.50	8.3	0.0	0.04	5	4.3

Date	23-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	ng/L)
M3	10:15	2.46	27.2 27.2	27.2	<0.1 <0.1	<0.1	5.39 5.4	5.40	71.7 71.8	71.8	5.08 4.95	5.0	9.00 9.00	9.0	0.0	0.02	6 5	5.5

Date	25-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(r	ng/L)
M3	10:25	2.44	26.9	26.9	< 0.1	< 0.1	5.52	5.53	74.1	74.4	5	5.0	8.60	8.6	0.0	0.02	5	5.5
	10120		26.9	2017	< 0.1		5.54	0.00	74.7	/	4.95	0.0	8.60	0.0	0.0	0.02	6	0.10

Date	28-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	elocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
M3	14:00	2.45	28.5	20 5	< 0.1	<0.1	6.12	6.12	81.3	01 5	4.87	10	9.30	0.2	0.0	0.02	6	6.0
M15	14:00	2.43	28.5	28.3	< 0.1	<0.1	6.14	0.15	81.6	81.5	4.63	4.8	9.30	9.5	0.0	0.02	6	0.0

Date	30-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow V	velocity (m/s)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
М3	14:00	2.45	28.9	28.9	< 0.1	<0.1	7.23	7.26	96.0	96.4	4.82	5.0	7.25	7 2	0.0	0.02	3	3.0
INI 5	14.00	2.45	28.9	20.9	< 0.1	<0.1	7.29	7.20	96.7	90.4	5.51	5.2	7.25	1.5	0.0	0.02	3	5.0





Water Quality Impact Monitoring Result for M4

Date	2-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p]	H	Sali	nity	SS(1	ng/L)
M4	10:40	0.44	28.2	<u> </u>	< 0.1	-0.1	6.84	6.85	93.8	04.0	2.4	2.4	7.94	7.0	0.05	0.05	<2	2
1014	10:40	0.44	28.2	20.2	< 0.1	<0.1	6.86	0.85	94.2	94.0	2.3	2.4	7.94	7.9	0.05	0.05	<2	<2

Date	4-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p]	H	Sali	nity	SS(1	mg/L)
M4	10.55	0.42	28.5	20 5	< 0.1	<0.1	5.66	5 62	76.9	765	2.2	2.2	8.12	01	0.06	0.06	4	25
1014	10:55	0.43	28.5	28.3	< 0.1	<0.1	5.59	5.63	76.0	/6.5	2.4	2.5	8.12	0.1	0.06	0.00	3	5.5

Date	7-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p]	H	Sali	nity	SS(1	ng/L)
M4	10.40	0.45	27.6	27.6	< 0.1	<0.1	6.18	6.01	82.2	00 F	3.0	26	7.10	71	0.04	0.04	4	15
M4	10:40	0.45	27.6	27.0	< 0.1	<0.1	6.24	0.21	82.8	82.3	2.2	2.6	7.10	/.1	0.04	0.04	5	4.3

Date	9-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Velo	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	ng/L)
M4	10.45	0.44	27.8	27.0	< 0.1	<0.1	6.12	616	80.4	80.0	1.8	17	7.30	72	0.04	0.04	2	2.0
1014	10:45	0.44	27.8	27.8	< 0.1	<0.1	6.2	6.16	81.4	80.9	1.7	1./	7.30	7.5	0.04	0.04	2	2.0

Date	11-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	mg/L)
M4	10.25	0.42	26.3	26.2	< 0.1	-0.1	6.27	6.21	83.5	84.0	1.7	1.6	7.80	70	0.06	0.06	<2	-2
M4	10:35	0.43	26.3	20.3	< 0.1	<0.1	6.34	0.31	84.4	84.0	1.6	1.0	7.80	7.8	0.06	0.06	<2	<2

Date	14-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow Velo	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	Н	Sali	nity	SS(1	mg/L)
M4	10.40	0.44	27.8	27.0	< 0.1	<0.1	6.47	C 10	85.5	057	2.8	20	7.50	75	0.04	0.04	3	2.0
M4	10:40	0.44	27.8	27.8	< 0.1	<0.1	6.49	6.48	85.8	85.7	2.8	2.8	7.50	1.5	0.04	0.04	3	3.0

Date	16-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	ng/L)
M4	10:40	0.45	28.1	29.1	< 0.1	<0.1	6.08	6.09	80.1	80.2	5.0	5.0	8.30	02	0.04	0.04	<2	~2
1014	10:40	0.45	28.1	28.1	< 0.1	<0.1	6.09	0.09	80.2	80.2	5.1	5.0	8.30	0.5	0.04	0.04	<2	<2



Date	18-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	mg/L)
M4	10.50	0.44	27.6	27.6	< 0.1	<0 1	6.14	614	81.4	81.4	3.8	2.0	7.70	77	0.03	0.03	2	2.0
1014	10:50	0.44	27.6	27.6	< 0.1	< 0.1	6.13	6.14	81.3	81.4	3.8	3.8	7.70	1.1	0.03	0.05	2	2.0

Date	21-Sep-20																	
Location	Time	Depth (m)	Temp) (oC)	Flow Veloc	city (m/s)	DO (1	mg/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	ng/L)
M4	10.25	0.44	26.9	26.0	< 0.1	<0.1	6.01	6.02	79.9	80.1	2.9	2.0	8.00	8.0	0.03	0.02	3	2.0
M4	10:25	0.44	26.9	26.9	< 0.1	< 0.1	6.02	6.02	80.2	80.1	3.1	3.0	8.00	8.0	0.03	0.03	3	3.0

Date	23-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Velo	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	ng/L)
M4	10:40	0.44	27.6	27.6	< 0.1	<0.1	5.98	5.99	79.7	79.8	3.2	2.2	9.00	9.0	0.05	0.05	2	2.0
114	10:40	0.44	27.6	27.0	< 0.1	<0.1	5.99	5.99	79.8	19.8	3.2	5.2	9.00	9.0	0.05	0.05	2	2.0

Date	25-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (r	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	ng/L)
M4	10:45	0.43	27	27.0	< 0.1	<0.1	5.91	5.94	79.5	70.0	3.6	2.0	8.10	Q 1	0.03	0.03	2	2.0
1014	10.45	0.43	27	27.0	< 0.1	<0.1	5.96	3.94	80.3	79.9	4.2	5.9	8.10	0.1	0.03	0.05	2	2.0

Date	28-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (1	ng/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(1	mg/L)
M4	14.25	0.45	28.8	200	< 0.1	<0.1	6.47	6 19	86.0	96.2	2.5	26	8.90	80	0.03	0.03	<2	~2
M4	14:25	0.45	28.8	20.0	< 0.1	<0.1	6.49	6.48	86.5	86.3	2.6	2.0	8.90	8.9	0.03	0.05	<2	<2

Date	30-Sep-20																	
Location	Time	Depth (m)	Temp	(oC)	Flow Veloc	city (m/s)	DO (I	mg/L)	DO	(%)	Tur	bidity	p	H	Sali	nity	SS(r	ng/L)
M4	14.25	0.45	29.2	20.2	< 0.1	< 0.1	7.55	7 55	100.4	100.3	2.8	20	7.00	7.0	0.04	0.04	<2	~2
1014	14:23	0.45	29.2	29.2	< 0.1	<0.1	7.54	1.55	100.2	100.5	3.0	2.9	7.00	7.0	0.04	0.04	<2	<u>\</u> 2

Action Level exceedance
Limit Level exceedance

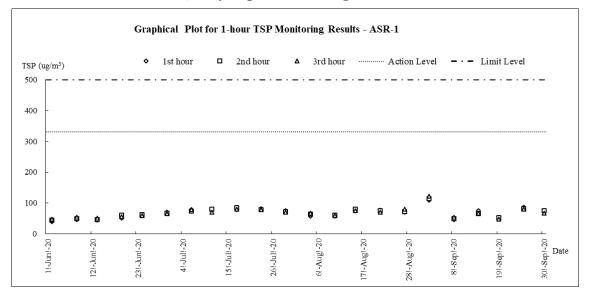


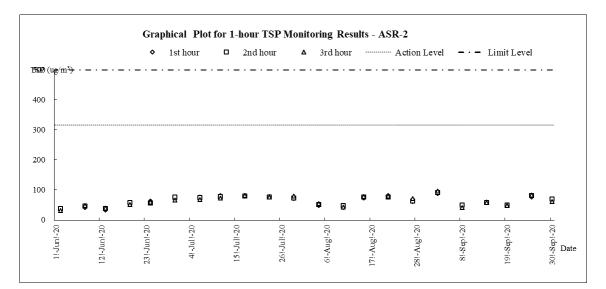
Appendix I

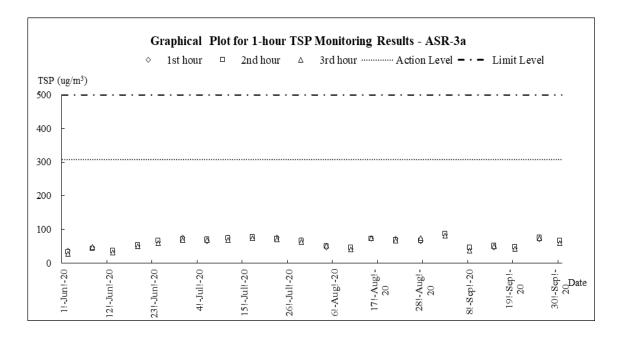
Graphical Plots of Air Quality, Noise and Water Quality



Air Quality Impact Monitoring – 1-hour TSP

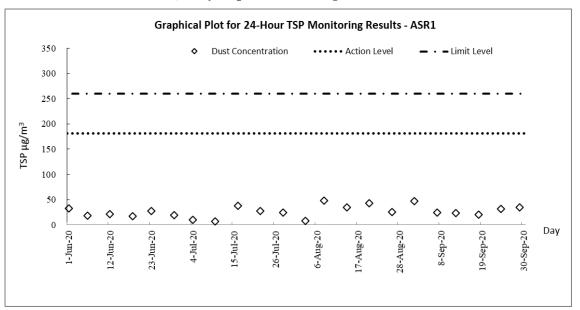


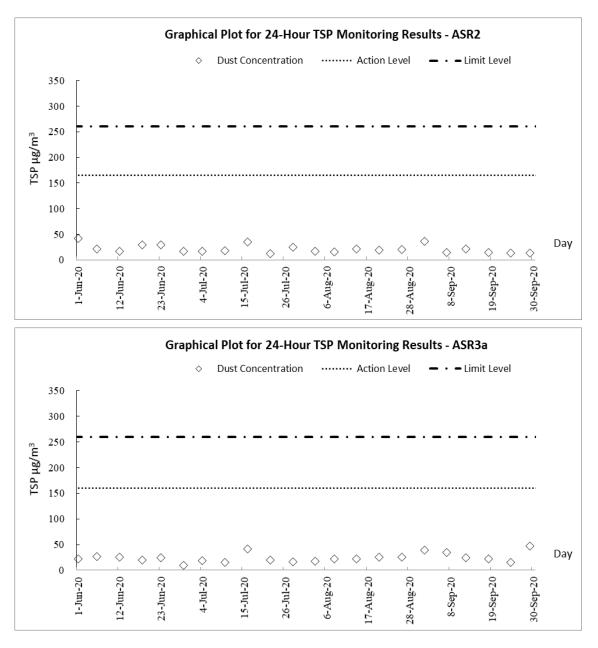






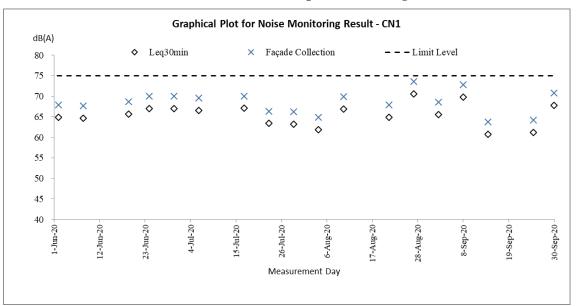
Air Quality Impact Monitoring – 24-hour TSP

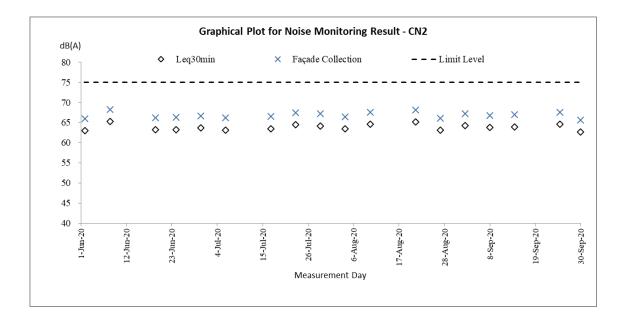






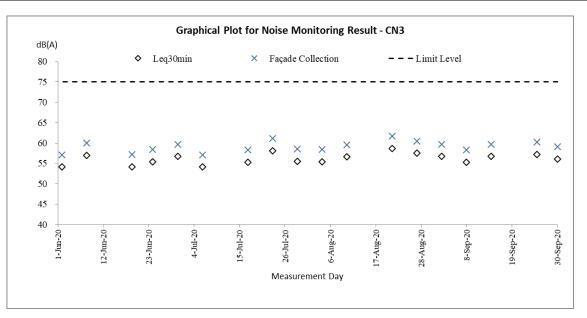
Construction Noise Impact Monitoring

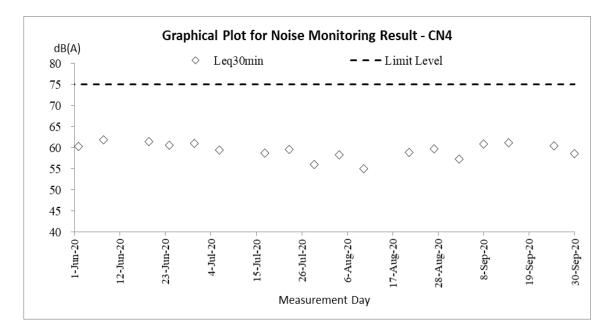




Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery Monthly Environmental Monitoring & Audit Report (No.26) – September 2020

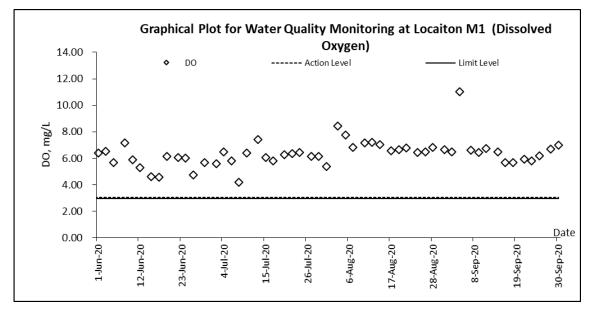


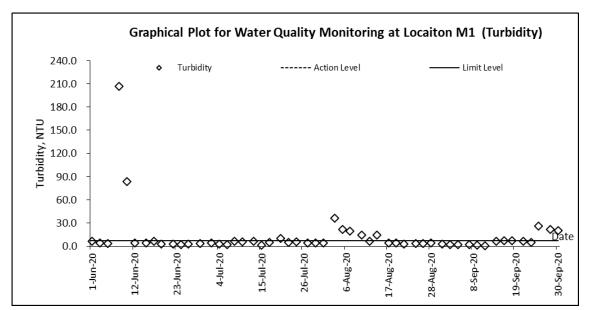


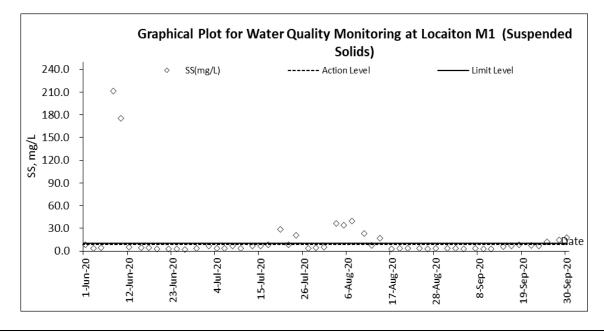




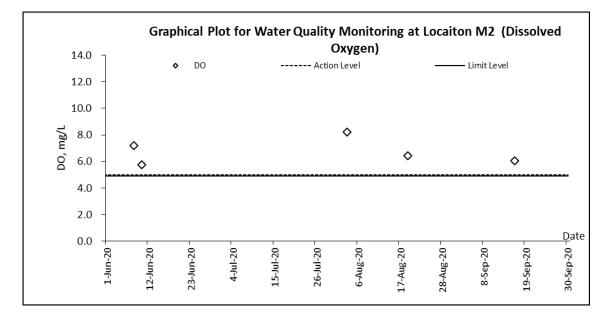
Water Quality Impact Monitoring

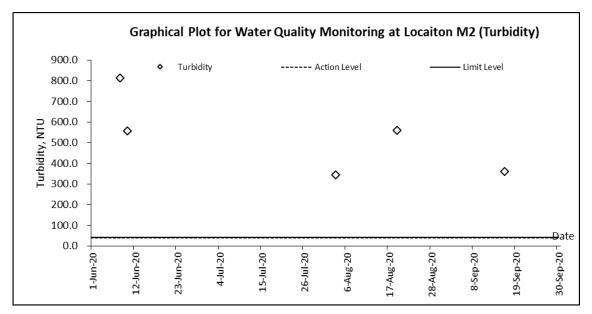


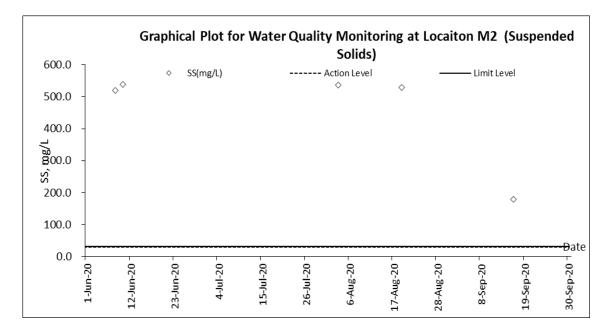




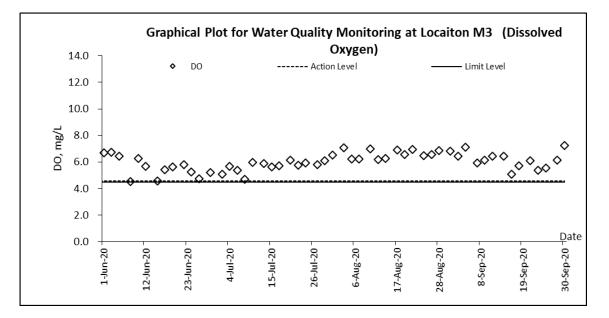


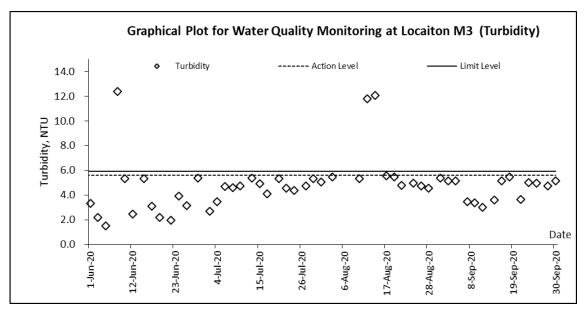


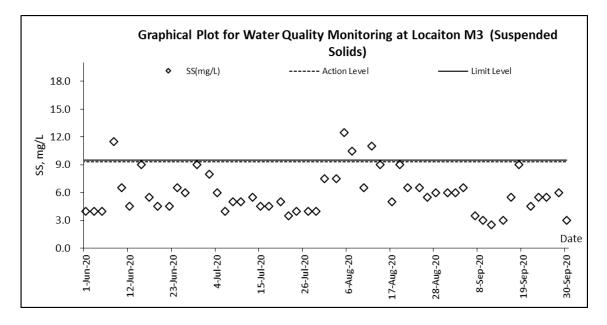




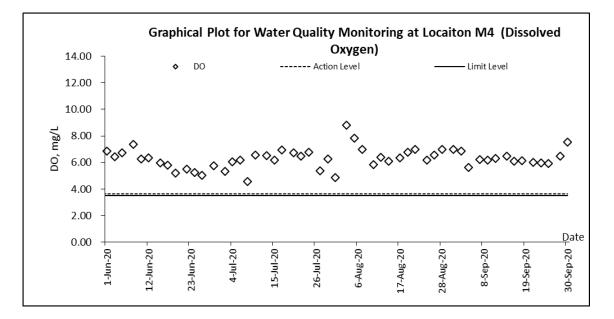


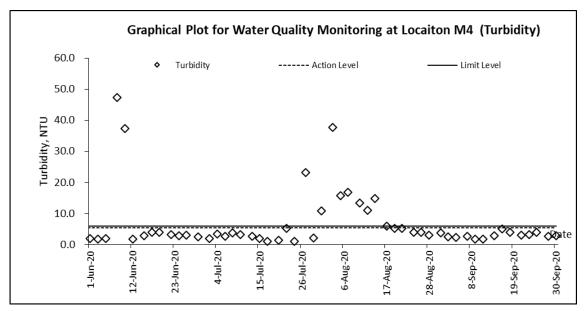


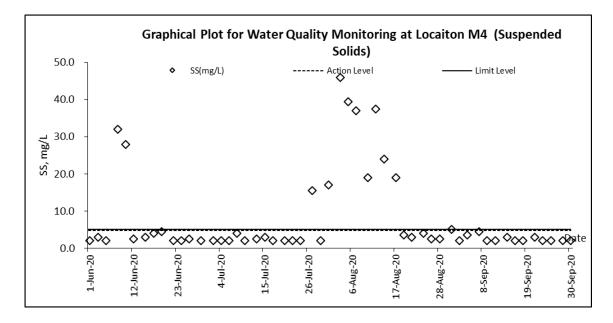














Appendix J

Meteorological Data of the Reporting Month

 $Z: \label{eq:loss} 2018 \ CV-2016-10) \ 600 \ EM\&A \ Report \ Submission \ Monthly \ Report \ 2020 \ 26th \ Month \ (Sep \ 2020) \ R0465v \ 2.doc \ 2.d$



				r	Fa Kwu	Ling Station	ı
Date		Weather	Total Rainfall (mm)	Mean Air Temp. (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Sep-20	Tue	Mainly cloudy with occasional showers	1.1	30.5	5	73.7	N
2-Sep-20	Wed	Moderate easterly winds	0.4	30	11.2	77.5	W/SW
3-Sep-20	Thu	Mainly cloudy with a few showers.	0.4	30.2	8.5	77.6	S/SE
4-Sep-20	Fri	Light to moderate south to southeasterly winds.	0.1	29	6.2	84.2	Е
5-Sep-20	Sat	Bright periods in the afternoon.	43.9	28.4	6.5	79	E/SE
6-Sep-20	Sun	Light to moderate southerly winds.	0	28.3	7	81.2	E/SE
7-Sep-20	Mon	Mainly cloudy with a few showers and thunderstorms.	4.7	28.7	6.2	85	E/SE
8-Sep-20	Tue	Mainly cloudy with occasional showers	68.9	26.6	7.5	90.5	E/SE
9-Sep-20	Wed	Moderate easterly winds	0.2	28.1	7.5	83.7	E/SE
10-Sep-20	Thu	Mainly cloudy with a few showers.	8.2	28.3	5	82.5	W/SW
11-Sep-20	Fri	Moderate easterly winds	2.7	28.1	6.2	83.7	S/SW
12-Sep-20	Sat	Mainly cloudy with a few showers.	27.9	29.2	6.7	81	Е
13-Sep-20	Sun	Moderate to fresh east to northeasterly winds.	5.7	28.5	7.5	77.2	Е
14-Sep-20	Mon	Sunny intervals during the day.	38.2	28.6	7	81.7	E
15-Sep-20	Tue	Sunny intervals during the day.	62.6	26.9	12.5	91.2	E
16-Sep-20	Wed	Moderate to fresh easterly winds, occasionally strong offshore and on high ground.	4.4	29.3	9	80.7	E/SE
17-Sep-20	Thu	Mainly cloudy with occasional showers and squally thunderstorms.	40.6	28.5	9	88.7	Е
18-Sep-20	Fri	Mainly cloudy with occasional showers and a few squally thunderstorms.	15.9	27.9	12.2	86.5	Е
19-Sep-20	Sat	Fresh easterly winds, occasionally strong offshore	50.8	27.6	10.7	81.7	Е
20-Sep-20	Sun	Mainly cloudy with a few showers.	0.7	27.7	9.5	82.5	E/SE
21-Sep-20	Mon	Moderate to fresh east to northeasterly winds.	176.8	28.6	8.7	85.5	E/SE
22-Sep-20	Tue	Sunny intervals during the day.	0.5	28.2	9.7	83.2	E/SE
23-Sep-20	Wed	Mainly cloudy with a few showers.	0.5	28.2	7	81.2	E/SE
24-Sep-20	Thu	Moderate easterly winds	0.6	27.3	6	82	Ν
25-Sep-20	Fri	Mainly cloudy with a few showers.	0	27.4	6.2	77.5	E/SE
26-Sep-20	Sat	Moderate easterly winds	Trace	28.4	7.5	78	E/SE
27-Sep-20	Sun	Mainly cloudy with a few showers.	1.3	27.9	10	81.2	E/SE
28-Sep-20	Mon	Moderate to fresh east to northeasterly winds.	26.2	26.6	7	85	Е
29-Sep-20	Tue	Sunny intervals during the day.	21.9	28	6.2	81.7	Е
30-Sep-20	Wed	Mainly cloudy with a few showers.	104.1	Maintenance	7	Maintenance	E/SE



Appendix K

Ecological Survey Report



Ecological Survey Report for Contract CV/2016/10



Contract No. CV/2016/10 Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Monthly Report of Ecologically Sensitive Habitats Monitoring – September 2020

Revision	0	
Date of issue	28 Sep 2020	
Prepared by	Alan Lam	A
Reviewed by	Edwina Yeung	and a
Verified by	Mike Leung	



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Agreement No. CE1/2013 (CE) Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery – Design and Construction Monthly Report of Ecologically Sensitive Habitats Monitoring

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1 INTRODUCTION

1.1 <u>BACKGROUND</u>

- 1.1.1 The main objective of the proposed site formation and associated infrastructural works for development of columbarium, crematorium (C&C) and related facilities at Sandy Ridge Cemetery is to increase the public cremation services and supply of public niches to meet the future demand.
- 1.1.2 The project includes site formation and associated works for development of C&C facilities at the Sandy Ridge Cemetery, road works within Sandy Ridge Cemetery, widening a section of Lin Ma Hang Road (from 6.5m to 7.3m), provision of off-site pick-up/drop-off points for shuttle buses as well as barging point at Siu Lam, Lok On Pai.
- 1.1.3 The Environmental Impact Assessment (EIA) report, including Environmental Monitoring and Audit Manual (EM&A Manual), was approved with conditions on 8 August 2016 (Register No.: AEIAR-198/2016). EPD issued an Environmental Permit (EP) for the Project (EP-534/2017) on 7 April 2017. A Further Environment Permit (FEP) for the Project (FEP-01/534/2017) was issued on 23 February 2018, variation of EP (EP-534/2017/A) and variation of FEP (FEP-01/534/2017/A) were issued on 24 December 2018.
- 1.1.4 According to Clause 3.1 of the FEP (FEP-01/534/2017/A), "The Permit Holder shall implement the EM&A programme in accordance with the procedures and requirements as set out in the EM&A Manual. Any changes to the programme shall be justified by the ET Leader and verified by the IEC as conforming to the information and requirements contained in the EM&A Manual before submission to the Director for approval".
- 1.1.5 This Ecologically Sensitive Habitats Monitoring Methodology articulates the protocol of monitoring the ecology of concerned habitats as specified in EM&A Manual.

1.2 <u>OBJECTIVE</u>

- 1.2.1 According to approved EIA report (AEIAR-198/2016), habitat types within project boundary comprise of watercourse, grassland, upland grassland, plantation, woodland and developed area. Natural habitats were of moderate ecological value in terms of species diversity, species rarity, species abundance, ecological linkage as well as nursery. Moreover, 0.3ha of wet woodland on the northern side of Sandy Ridge was deemed habitat with high ecological value. Four types of habitats were regarded as ecologically sensitive habitats, namely wet woodland, watercourses, upland grassland and woodland. Considering human disturbance in upcoming construction and operation phases, ecologically sensitive habitats shall be monitored in accordance with EM&A Manual.
- 1.2.2 The objective of ecologically sensitive habitats monitoring is to evaluate the effectiveness of measures to minimize impacts on concerned habitats from disturbance and pollution.



2 ECOLOGICALLY SENSITIVE HABITATS

2.1 DESCRIPTION OF HABITATS

2.1.1 In order to monitor the effectiveness of the measures to the minimise impact on ecologically sensitive habitats from disturbance and pollution, monthly monitoring during construction and operation phases is required as specified in EM&A Manual. Standard faunal transect and sampling surveys cover both wetland and non-wetland habitats:

Wetland habitats	Non-wetland habitats
Wet Woodland	Upland Grassland
Watercourses	Woodland

- 2.1.2 Wet woodland is small patch present on northwest of the project boundary, and is confined by the marsh area to the north and the secondary woodland to the east, south and south-west parts. A number of mature trees *Cleistocalyx nervosum* and *Acronychia pedunculata* form the tree canopy, with other self-sown shrubs (including *Psychotria asiatica, Ligustrum sinense* and *Glochidion lanceolarium*) and trees (*Aporosa dioica* and *Litsea monopetala*). Whilst botanically it comprises of naturally regenerated secondary woodland and ground level are a series of small braided streams and weep points which even during the dry season remain wet. This creates a rather uncommon habitat in Hong Kong offering suitable conditions for a good assemblage of common wetland species. The wet woodland provides a good assemblage of micro-habitats, which is relatively undisturbed and has good linkages to other natural habitats. Several species of conversation importance were recorded in EIA report from this habitat: East Asian Porcupine, Leopard Cat, Red Muntjac, Two-striped Grass Frog, Small Snakehead, *Somanniathelphusa zanklon*, Dancing Shadow-emerald.
- 2.1.3 Seasonal watercourse running west to east in the eastern part of the area inside the Project boundary is shallower in gradient than those running off the hillside. This seasonal watercourse is heavily vegetated with wetland-associated herbs including *Commelina diffusa*, *Polygonum chinense*, *Colocasia esculenta* and *Dracaena sanderiana*. A mature tree of *Aquilaria sinensis* was recorded at the bank of the seasonal watercourse to the west of the Sandy Ridge Cemetery Office. Seasonal watercourses are restricted to the steeper slopes within the project boundary and are characterised by being entirely dry for much of the dry season. However, endemic crab *S. zanklon* population is supported by ephemeral watercourses close to the project boundary.
- 2.1.4 Upland grassland is the major habitat within the project boundary. The semi-natural habitat is dominated by typical upland grassland species: fern *Dicranopteris pedata*, grass *Neyraudia reynaudiana*, *Miscanthus floridulus*, climbing vines *Smilax china*, *Smilax glabra*, and shrubs such as *Rhodomyrtus tomentosa*, *Breynia fruticosa* and *Helicteres angustifolia*. Approximately 30 flowering spikes of two orchid species Bamboo Orchid and Toothed Habenaria were recorded near the hill top in the northern part of this upland grassland. Golden-headed Cisticola, which is considered as Local Concern by Fellowes *et al.* (2002), was also recorded in upland grassland on Sandy Ridge, including a proved breeding record of fledged young in September 2013. In addition, numerous species of conservation interest were recorded in EIA report, such as East Asian Porcupine, Leopard Cat, Red Muntjac, Great Swift, Tamil Grass Dart, Small Three-ring and Small Grass Yellow.



2.1.5 Scattered patches of woodland are present throughout the assessment area, with the largest contiguous block located immediately to the east of the project boundary. These woodlands are relatively young with single-layered of canopy dominants (~10 – 15m tall) including *A. dioica, Bridelia tomentosa, Cinnamomum burmannii, Daphniphyllum calycinum, Litsea glutinosa, Rhus succedanea,* and *Zanthoxylum avicennae*. Such areas comprise secondary woodland which is largely derived from natural regeneration and colonisation of trees as a result of seed dispersal by birds and/or bats. A mature tree of *A. sinensis* is located at the woodland edge at the central part of the Project according to EIA report.

2.2 MONITORING MEASURES OF WETLAND HABITATS

- 2.2.1 Wetland habitats include wet woodland and watercourses. Monitoring surveys using standardised quantitative methodology will be conducted at fixed points. For seasonal watercourse, survey shall be conducted whenever the habitat appears.
- 2.2.2 Measures to respond to decreases in numbers of aquatic fauna using the wetland habitats and action and limit levels to trigger these measures are detailed in Table 1.

Action Level	Response	Limit Level	Response
Reduction in	Investigate cause and if	Reduction	Investigate cause and if
taxa diversity	cause identified as related	in taxa	cause identified as related
by 30%	to the project instigate	diversity	to the project instigate
	remedial action to remove	by 50%	remedial action.
	or reduce source of		
	disturbance.		

Table 1 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna

2.3 MONITORING MEASURES OF NON-WETLAND HABITATS

- 2.3.1 Non-wetland habitats consist of upland grassland and woodland. Monthly quantitative surveys of non-aquatic fauna will be conducted using standard route transect counts.
- 2.3.2 Measures to respond to decreases in numbers of non-aquatic fauna using the non-wetland habitats and action and limit levels to trigger these measures are detailed in Table 2.

Action Level	Response	Limit Level	Response
Reduction in	Investigate cause and if	Reduction	Investigate cause and if
species diversity	cause identified as related	in species	cause identified as related
by 30%	to the project instigate	diversity by	to the project instigate
	remedial action to remove	50%	remedial action.
	or reduce source of		
	disturbance.		

Table 2 Action and Limit Levels and Responses to Evidence of Declines in Non-Aquatic Fauna



3 METHODOLOGY

The ecological survey includes all taxa being investigated in EIA report. Table 3 summarizes schedule of faunal surveys.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mammals	\checkmark											
Birds (day)			\checkmark		\checkmark	\checkmark						
Birds (night)				\checkmark								
Herpetofau na				\checkmark								
Dragonflies			\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Butterflies			\checkmark									
Aquatic fauna	V		\checkmark									

Table 3 Survey Schedule

3.1 MAMMAL SURVEY

3.1.1 Mammal surveys will be conducted along the transects shown in Appendix 1 during both daytime and night time periods. Along with direct observations, other field signs, such as scats and tracks, will be searched and recorded if present.

3.2 BIRD SURVEY

3.2.1 Bird surveys will be conducted along the transects shown in Appendix 1 during the surveys, species and their vocalizing individuals recorded will be enumerated and recorded according to the habitat(s) they are utilising.

3.3 HERPETOFAUNA SURVEY

3.3.1 Reptile and amphibian surveys will be conducted along transects shown in Appendix 1 during surveys careful searches of appropriate microhabitats and refugia for reptiles and their vocalizing individuals will be undertaken and all reptiles observed will be identified and counted.

3.4 DRAGONFLY SURVEY

3.4.1 Dragonfly surveys will be conducted along transects shown in Appendix 1 during surveys all dragonflies seen will be identified and counted as accurately as possible.



3.5 BUTTERFLY SURVEY

3.5.1 Butterfly surveys will be conducted along transects shown in Appendix 1 during surveys all dragonflies seen will be identified and counted as accurately as possible.

3.6 AQUATIC FAUNA SURVEY

3.6.1 Freshwater fishes and macro-invertebrates will be recorded by direct observation. All species trapped/recorded will be enumerated and identified (to the lowest taxonomic level possible), and the species of conservation importance photographed.



4 RESULT

This monitoring survey started on 3rd September 2020. A sunny day. The day and night survey covered wetland and non-wetland areas. The survey was conducted by transect and at fixed points. All species seen will be identified and counted as accurately as possible.

Mammal

There was no mammal recorded in the monitoring area.

Bird

There were a total of 19 bird individuals from 11 species recorded in the monitoring area. Two species of conservation interests were recorded in the monitoring area: *Centropus sinensis*, Greater Coucal (褐翅鴉鵑), *Corvus torquatus*, Collared Crow (白頸鴉).

Herpetofauna

There was no reptile recorded in the monitoring area. There was two amphibian species recorded in the monitoring area.

■ Butterfly

There was a total of 7 butterfly individuals from 7 species recorded in the monitoring area.

Dragonfly

There was a total of 35 odonate individuals from 4 species recorded in the monitoring area.

Freshwater communities

There was one freshwater community recorded in the monitoring area. One species of conservation interests were recorded in the monitoring area: *Somanniathelphusa zanklon*, (鐮刀束腰蟹)



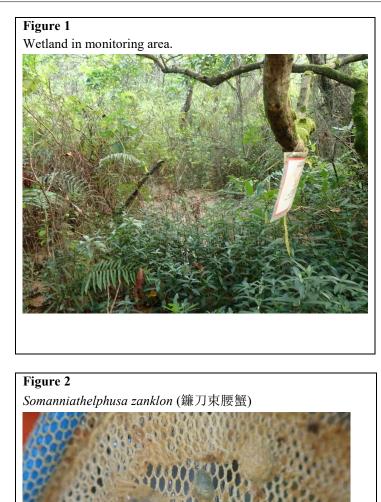




Table 4Result of mammal in survey

Scientific Name	English Name	Chinese	Conservation	3-Se	3-Sep-2020		
		Name	Status	Non- wetland	Wetland		
		N/A					

Table 5Result of Avifauna in survey

Gebergt Con Name	Fuelt News	Chinese	Conservation Status	3-Se	ep-2020
Scientific Name	English Name	Name		Non- wetland	Wetland
Centropus sinensis	Greater Coucal	褐翅鴉鵑	Class 2 Protected Animal of China;China Red Data Book Status: (Vulnerable)		1
Apus nipalensis	House Swift	小白腰雨燕		4	
Lanius schach	Long-tailed Shrike	棕背伯勞			1
Corvus torquatus	Collared Crow	白頸鴉	Fellowes et al. (2002): LC; IUCN Red List Status: NT	1	
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯			3
Pycnonotus aurigaster	Sooty-headed Bulbul	白喉紅臀鵯			2
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯			2
Prinia inornata	Plain Prinia	純色鷦鶯			1
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯			1
Gracupica nigricollis	Black-collared Starling	黑領椋鳥		2	
Myophonus caeruleus	Blue Whistling Thrush	紫嘯鶇		1	



Table 6Result of reptile in survey

Scientific Name	Common Name	Chinese Name	3-Sep-2020		
Scientific Name	Common Ivanie	Chinese Name	Non-wetland W	etland	
		NT/A			
		N/A			

Table 7Result of amphibian in survey

Scientific Name	Common Name	Chinese Name	Conservation Status	3-Sep	-2020
				Non- wetland	Wetland
Polypedates megacephalus	Brown Tree Frog	斑腿泛樹蛙			+
Kaloula pulchra	Asiatic Painted Frog	花狹口蛙			+

+: Uncountable due to vocal identification

Table 8Result of butterfly in survey

Scientific Name	Common Name	Chinese Name	3-80	p-2020	
			Non-wetland	Wetland	
Matapa aria	Common Redeye	瑪弄蝶		1	
Parnara ganga	Rare Swift	曲紋稻弄蝶	1		
Pelopidas assamensis	Great Swift	印度穀弄蝶		1	
Polytremis lubricans	Contiguous Swift	黃紋孔弄蝶		1	
Spindasis syama	Club Silverline	豆粒銀線灰蝶		1	
Hestina assimilis	Red Ring Skirt	黑脈蛺蝶	1		
Mycalesis mineus	Dark Brand Bush Brown	小眉眼蝶		1	

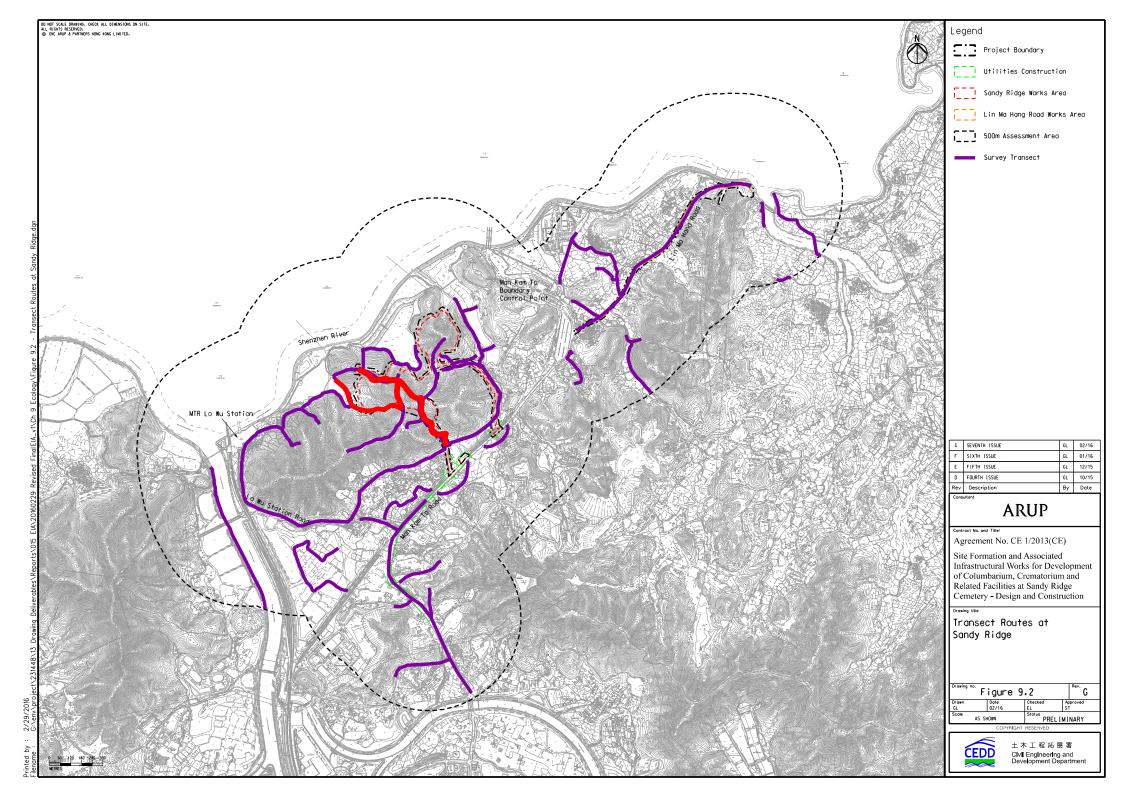
Table 9Result of Odonate in survey

Scientific Name	Common Name	Chinese Name	Conservation Status	3-Sep-2	-2020
				Non- wetland	Wetland
Neurothemis tullia	Pied Percher	截斑脈蜻			1
Orthetrum sabina	Green Skimmer	狹腹灰蜻		2	1
Pantala flavescens	Wandering Glider	黃蜻		20	10
Urothemis signata	Scarlet Basker	赤斑曲鈎脈蜻	Fellowes et al. (2002): LC		1

Table 10Result of freshwater communities in survey

				3-Sep-2020	
Scientific Name	Common Name	Chinese Name	Conservation Status	Non- wetland	Wetland
Somanniathelphusa zanklon	-	鐮刀束腰蟹	Fellowes et al. (2002): GC		2

Appendix I – Transect Routes for Contract CV/2016/10





Ecological Survey Report for Contract CV/2017/02



Contract No. CV/2017/02 Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road

Monthly Report of Ecologically Sensitive Habitats Monitoring – September 2020

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Prepared by	Alan Lam	光
Reviewed by	Edwina Yeung	and a
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1 INTRODUCTION

1.1 <u>BACKGROUND</u>

- 1.1.1 The main objective of the proposed site formation and associated infrastructural works for development of columbarium, crematorium (C&C) and related facilities at Sandy Ridge Cemetery is to increase the public cremation services and supply of public niches to meet the future demand.
- 1.1.2 The project includes site formation and associated works for development of C&C facilities at the Sandy Ridge Cemetery, road works within Sandy Ridge Cemetery, widening a section of Lin Ma Hang Road (from 6.5m to 7.3m), provision of off-site pick-up/drop-off points for shuttle buses as well as barging point at Siu Lam, Lok On Pai.
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- 1.1.5 This Ecologically Sensitive Habitats Monitoring Methodology articulates the protocol of monitoring the ecology of concerned habitats as specified in EM&A Manual.

1.2 <u>OBJECTIVE</u>

- 1.2.1 According to approved EIA report (AEIAR-198/2016), habitat types within project boundary comprise of watercourse, grassland, upland grassland, plantation, woodland and developed area. Natural habitats were of moderate ecological value in terms of species diversity, species rarity, species abundance, ecological linkage as well as nursery. Moreover, 0.3ha of wet woodland on the northern side of Sandy Ridge was deemed habitat with high ecological value. Four types of habitats were regarded as ecologically sensitive habitats, namely wet woodland, watercourses, upland grassland and woodland. Considering human disturbance in upcoming construction and operation phases, ecologically sensitive habitats shall be monitored in accordance with EM&A Manual.
- 1.2.2 The objective of ecologically sensitive habitats monitoring is to evaluate the effectiveness of measures to minimize impacts on concerned habitats from disturbance and pollution.



2 ECOLOGICALLY SENSITIVE HABITATS

2.1 DESCRIPTION OF HABITATS

2.1.1 In order to monitor the effectiveness of the measures to the minimise impact on ecologically sensitive habitats from disturbance and pollution, monthly monitoring during construction and operation phases is required as specified in EM&A Manual. Standard faunal transect and sampling surveys cover both wetland and non-wetland habitats:

Wetland habitats	Non-wetland habitats
Wet Woodland	Upland Grassland
Watercourses	Woodland

- 2.1.2 Wet woodland is small patch present on northwest of the project boundary, and is confined by the marsh area to the north and the secondary woodland to the east, south and south-west parts. A number of mature trees *Cleistocalyx nervosum* and *Acronychia pedunculata* form the tree canopy, with other self-sown shrubs (including *Psychotria asiatica, Ligustrum sinense* and *Glochidion lanceolarium*) and trees (*Aporosa dioica* and *Litsea monopetala*). Whilst botanically it comprises of naturally regenerated secondary woodland and ground level are a series of small braided streams and weep points which even during the dry season remain wet. This creates a rather uncommon habitat in Hong Kong offering suitable conditions for a good assemblage of common wetland species. The wet woodland provides a good assemblage of micro-habitats, which is relatively undisturbed and has good linkages to other natural habitats. Several species of conversation importance were recorded in EIA report from this habitat: East Asian Porcupine, Leopard Cat, Red Muntjac, Two-striped Grass Frog, Small Snakehead, *Somanniathelphusa zanklon*, Dancing Shadow-emerald.
- 2.1.3 Seasonal watercourse running west to east in the eastern part of the area inside the Project boundary is shallower in gradient than those running off the hillside. This seasonal watercourse is heavily vegetated with wetland-associated herbs including *Commelina diffusa*, *Polygonum chinense*, *Colocasia esculenta* and *Dracaena sanderiana*. A mature tree of *Aquilaria sinensis* was recorded at the bank of the seasonal watercourse to the west of the Sandy Ridge Cemetery Office. Seasonal watercourses are restricted to the steeper slopes within the project boundary and are characterised by being entirely dry for much of the dry season. However, endemic crab *S. zanklon* population is supported by ephemeral watercourses close to the project boundary.
- 2.1.4 Upland grassland is the major habitat within the project boundary. The semi-natural habitat is dominated by typical upland grassland species: fern *Dicranopteris pedata*, grass *Neyraudia reynaudiana*, *Miscanthus floridulus*, climbing vines *Smilax china*, *Smilax glabra*, and shrubs such as *Rhodomyrtus tomentosa*, *Breynia fruticosa* and *Helicteres angustifolia*. Approximately 30 flowering spikes of two orchid species Bamboo Orchid and Toothed Habenaria were recorded near the hill top in the northern part of this upland grassland. Golden-headed Cisticola, which is considered as Local Concern by Fellowes *et al.* (2002), was also recorded in upland grassland on Sandy Ridge, including a proved breeding record of fledged young in September 2013. In addition, numerous species of conservation interest



were recorded in EIA report, such as East Asian Porcupine, Leopard Cat, Red Muntjac, Great Swift, Tamil Grass Dart, Small Three-ring and Small Grass Yellow.

2.1.5 Scattered patches of woodland are present throughout the assessment area, with the largest contiguous block located immediately to the east of the project boundary. These woodlands are relatively young with single-layered of canopy dominants ($\sim 10 - 15$ m tall) including *A. dioica, Bridelia tomentosa, Cinnamomum burmannii, Daphniphyllum calycinum, Litsea glutinosa, Rhus succedanea,* and *Zanthoxylum avicennae*. Such areas comprise secondary woodland which is largely derived from natural regeneration and colonisation of trees as a result of seed dispersal by birds and/or bats. A mature tree of *A. sinensis* is located at the woodland edge at the central part of the Project according to EIA report.

2.2 MONITORING MEASURES OF WETLAND HABITATS

- 2.2.1 Wetland habitats include wet woodland and watercourses. Monitoring surveys using standardised quantitative methodology will be conducted at fixed points. For seasonal watercourse, survey shall be conducted whenever the habitat appears.
- 2.2.2 Measures to respond to decreases in numbers of aquatic fauna using the wetland habitats and action and limit levels to trigger these measures are detailed in Table 1.

Action Level	Response	Limit Level	Response
Reduction in	Investigate cause and if	Reduction	Investigate cause and if
taxa diversity	cause identified as related	in taxa	cause identified as related
by 30%	to the project instigate	diversity	to the project instigate
	remedial action to remove	by 50%	remedial action.
	or reduce source of		
	disturbance.		

Table 1 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna

2.3 MONITORING MEASURES OF NON-WETLAND HABITATS

- 2.3.1 Non-wetland habitats consist of upland grassland and woodland. Monthly quantitative surveys of non-aquatic fauna will be conducted using standard route transect counts.
- 2.3.2 Measures to respond to decreases in numbers of non-aquatic fauna using the non-wetland habitats and action and limit levels to trigger these measures are detailed in Table 2.

Action Level	Response	Limit Level	Response
Reduction in	Investigate cause and if	Reduction	Investigate cause and if
species diversity	cause identified as related	in species	cause identified as related
by 30%	to the project instigate	diversity by	to the project instigate
	remedial action to remove	50%	remedial action.
	or reduce source of		
	disturbance.		

Table 2 Action and Limit Levels and Responses to Evidence of Declines in Non-Aquatic Fauna

3 METHODOLOGY

The ecological survey includes all taxa being investigated in EIA report. Table 3 summarizes schedule of faunal surveys.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mammals	\checkmark											
Birds (day)			\checkmark									
Birds (night)				\checkmark								
Herpetofau na				\checkmark								
Dragonflies			\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
Butterflies			\checkmark									
Aquatic fauna	\checkmark											

Table 3 Survey Schedule

3.1 MAMMAL SURVEY

3.1.1 Mammal surveys will be conducted along the transects shown in Appendix 1 during both daytime and night time periods. Along with direct observations, other field signs, such as scats and tracks, will be searched and recorded if present.

3.2 BIRD SURVEY

3.2.1 Bird surveys will be conducted along the transects shown in Appendix 1 during the surveys, species and their vocalizing individuals recorded will be enumerated and recorded according to the habitat(s) they are utilising.

3.3 HERPETOFAUNA SURVEY

3.3.1 Reptile and amphibian surveys will be conducted along transects shown in Appendix 1 during surveys careful searches of appropriate microhabitats and refugia for reptiles and their vocalizing individuals will be undertaken and all reptiles observed will be identified and counted.

3.4 DRAGONFLY SURVEY

3.4.1 Dragonfly surveys will be conducted along transects shown in Appendix 1 during surveys all dragonflies seen will be identified and counted as accurately as possible.



3.5 BUTTERFLY SURVEY

3.5.1 Butterfly surveys will be conducted along transects shown in Appendix 1 during surveys all dragonflies seen will be identified and counted as accurately as possible.

3.6 AQUATIC FAUNA SURVEY

3.6.1 Freshwater fishes and macro-invertebrates will be recorded by direct observation. All species trapped/recorded will be enumerated and identified (to the lowest taxonomic level possible), and the species of conservation importance photographed.



4 RESULT

This monitoring survey started on 3rd September 2020. A sunny day. The day and night survey covered wetland and non-wetland areas. The survey was conducted by transect and at fixed point. All species seen will be identified and counted as accurately as possible.

Mammal

There was no mammal recorded in the monitoring area.

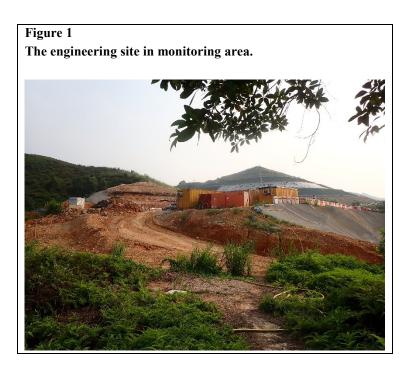
Bird There were total of 18 bird individuals from 7 species recorded in the monitoring area.

Herpetofauna

There was no reptile recorded in the monitoring area. There was no amphibian recorded in the monitoring area.

- Butterfly There was total 9 butterfly individuals from 7 species recorded in the monitoring area.
- Dragonfly There was total 7 odonate individuals from 3 species recorded in the monitoring area.
- Freshwater communities There were two species of freshwater fish recorded in the monitoring area.





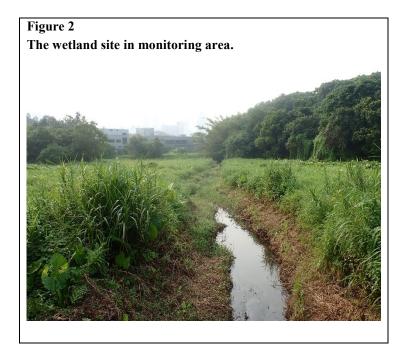




Table 4Result of mammal in survey

Scientific Name	English Name	Chinese Name	Conservation	3-Se	3-Sep-2020	
		Chinese Name		Non- wetland	Wetland	
N/A						

Table 5Result of Avifauna in survey

Contract Con Diama	English Norre		Conservation	3-Sep-2020		
Scientific Name	English Name	Chinese Name	Status	Non- wetland	Wetland	
Spilopelia chinensis	Spotted Dove	珠頸斑鳩			2	
Pycnonotus jocosus	Red-whiskered Bulbul	紅耳鵯			2	
Hirundo rustica	Barn Swallow	家燕		3	2	
Prinia flaviventris	Yellow-bellied Prinia	黃腹鷦鶯			2	
Orthotomus sutorius	Common Tailorbird	長尾縫葉鶯			1	
Garrulax perspicillatus	Masked Laughingthrush	黑臉噪鶥		4		
Zosterops japonicus	Japanese White-eye	暗綠繡眼鳥		2		



Table 6Result of reptile in survey

Scientific Name	Common Name	Chinese Name	3-Sep	3-Sep-2020		
			Non-wetland	Wetland		
N/A						

Table 7Result of amphibian in survey

Scientific Name	Common Name	C'hinese Name		3-Sep-2020			
				Non- wetland	Wetland		
N/A							

Table 8Result of butterfly in survey

Scientific Name	Common Name	Chinese Name	3-Sep-2020		
Scientific Name		Chinese Ivanie	Non-wetland	Wetland	
Notocrypta curvifascia	Restricted Demon	曲紋袖弄蝶		1	
Faunis eumeus	Large Faun	串珠環蝶	2		
Mycalesis mineus	Dark Brand Bush Brown	小眉眼蝶	2		
Papilio polytes	Common Mormon	玉帶鳳蝶	1		
Papilio protenor	Spangle	藍鳳蝶	1		
Catopsilia pomona	Lemon Emigrant	遷粉蝶	1		
Delias pasithoe	Red-base Jezebel,	報喜斑粉蝶	1		
Denus pusinoe	Common Black Jezebel	+12;古小小小赤	1		

Table 9Result of Odonate in survey

Scientific Name Co	Common Name	C'hinese Name	Conservation Status	3-Sep-2020	
				Non- wetland	Wetland
Brachydiplax chalybea	Blue Dasher	藍額疏脈蜻			1
Copera marginipes	Yellow Featherlegs	黃狹扇蟌			2
Pantala flavescens	Wandering Glider	黃蜻			4



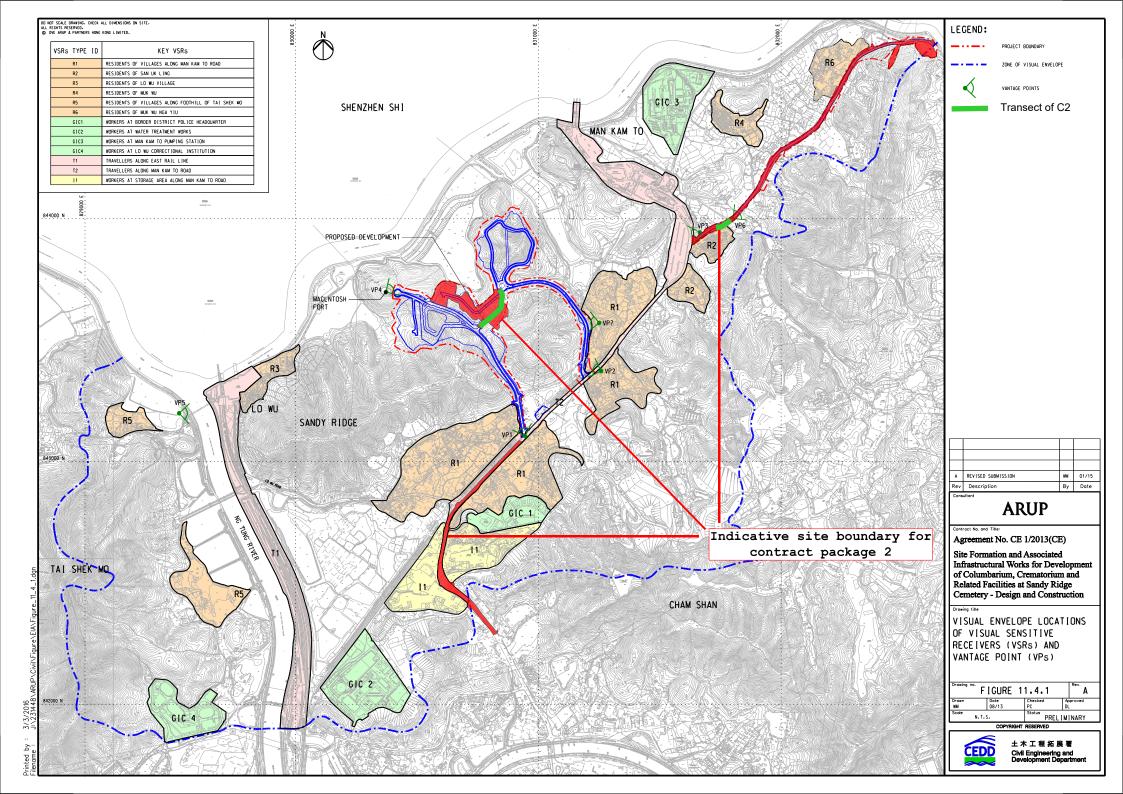
Table 10Result of freshwater communities in survey

Scientific Name	Common Name	Chinese Name	Conservation Status	3-Sep-2020
Gambusia affinis	Mosquito fish	食蚊魚		+
Puntius semifasciolatus	Chinese Barb	五線無鬚鮑		+

+:

Species appeared but uncountable

Appendix I – Transect Routes for Contract CV/2017/02





Appendix L

Landscape & Visual Inspection Checklist



Contract No. CV/2016/10

Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery Landscape and Visual Impact Assessment Checklist for Site Audit

Date/ Time: 24/9/2020 15:30 Weather: Fine/ Overcast/ Rain/ Windy

Item	Mitigation Measures	Im	pleme	ntation	Actions/ Remarks		
	8	Yes	No	N/A	_		
1	Landscape and Visual						
1.1	Is the construction period become shortened?			\checkmark	Under review.		
1.2	Is the work site confined within site boundaries and without encroaching into the landscape resources offsite?	~					
1.3	Is the site kept clean and tidy (E.g. storage of materials, location and appearance of site accommodation being well positioned)	~					
1.4	Is the construction site screened properly by hoardings or noise barriers in visually unobstructed colours?	~					
1.5	Is the erosion and dust control for exposed soil well performed during excavation work? (E.g. Exposed soil shall be covered or "camouflaged" and watered frequently. Areas that are expected to be left with bare soil for a long period of time should be hydro seeded and / or covered with suitable protective fabrics.)	~					
1.6	Are the woodland, plantation and other vegetation being protected and preserved in accordance with DEVB TC(W) No. 07/2015(E.g. Set up Tree Protection Zone)?	~					
1.7	Are the trees which are in direct conflict with the development proposal being transplanted as far as practical in accordance with and DEVB TC(W) No. 07/2015?	~					
1.8	Are compensatory planting for trees being provided to compensate the trees felled in accordance with DEVB TC(W) No. 07/2015?			~	Tree planting works have not yet been commenced.		
1.9	Are precautionary control measures to protect natural streams and rivers from adverse impact being implemented in accordance with ETWWB TCW No. 5/2005? (E.g. Construction debris and spoil should be covered up and properly disposed)	~					
1.10	Is light and glare control such as hooding being implemented during construction and operation to minimize light pollution and night time glare? (E.g. All security floodlights for construction sites should be equipped with adjustable shield, frosted diffusers and reflective covers)	~					

Summary / Remarks:

Follow up actions taken by Contractor for previous comments:



New observation:

1. Some Tree Protection Zones (TPZ) were found damaged or missing.

Reminders:

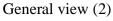
- 1. Contractor is reminded to set up TPZ of proper size and with appropriate material around retain trees according to approved method statement.
- 2. Contractor is reminded to prevent the construction material pile within TPZ and ensure no works is allowed within the TPZ.
- 3. Transplanted trees T2465, T2468 and T2928 were in fair health condition with normal foliage color and density. Contractor is reminded to provide proper maintenance according to approved method statement.

Photo Record:

Fig B.

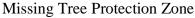


General view (1)





General view (3)









Transplanted tree (T-2465)





Transplanted tree (T-2468)



Tree protection zone (T-2468)



Transplanted tree (T-2928)



Contract No. CV/2017/02

Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery Development of Columbarium at Sandy Ridge Cemetery – Infrastructural Works at Man Kam To Road and Lin Ma Hang Road Landscape and Visual Impact Assessment Checklist for Site Audit

Date/ Time: 24/9/2020 16:30 Weather: Fine/ Overcast/ Rain/ Windy

Item	Mitigation Measures	Im	pleme	ntation	Actions/ Remarks		
	8	Yes	No	N/A			
1	Landscape and Visual	T			1		
1.1	Is the construction period become shortened?			\checkmark	Under review		
1.2	Is the work site confined within site boundaries and without encroaching into the landscape resources offsite?	~					
1.3	Is the site kept clean and tidy (E.g. storage of materials, location and appearance of site accommodation being well positioned)	~					
1.4	Is the construction site screened properly by hoardings or noise barriers in visually unobstructed colours?	~					
1.5	Is the erosion and dust control for exposed soil well performed during excavation work? (E.g. Exposed soil shall be covered or "camouflaged" and watered frequently. Areas that are expected to be left with bare soil for a long period of time should be hydro seeded and / or covered with suitable protective fabrics.)	~					
1.6	Are the woodland, plantation and other vegetation being protected and preserved in accordance with DEVB TC(W) No. 07/2015(E.g. Set up Tree Protection Zone)?	~					
1.7	Are the trees which are in direct conflict with the development proposal being transplanted as far as practical in accordance with and DEVB TC(W) No. 07/2015?			~	Tree transplanting works have not yet been commenced		
1.8	Are compensatory planting for trees being provided to compensate the trees felled in accordance with DEVB TC(W) No. 07/2015?			~			
1.9	Are precautionary control measures to protect natural streams and rivers from adverse impact being implemented in accordance with ETWWB TCW No. 5/2005? (E.g. Construction debris and spoil should be covered up and properly disposed)			~			
1.10	Is light and glare control such as hooding being implemented during construction and operation to minimize light pollution and night time glare? (E.g. All security floodlights for construction sites should be equipped with adjustable shield, frosted diffusers and reflective covers)			~			



Summary / Remarks:

Follow up actions taken by Contractor for previous comments:

N/A

New Observation:

N/A

Reminders:

1. Contractor is reminded to set up TPZ of proper size and with appropriate material around retain trees according to approved method statement. Contractor should prevent any construction material pile within TPZ and ensure no works is allowed within the TPZ.

Photo Record:



General view (1)

General view (2)



General view (3)

General view (4)



Signature:			
		Signature ration Bog	Date
Recorded by	Registered Landscape Architect	R-142	30 Sep 2020
Checked by	Environmental Team Leader	- III BE III - SA	12 Oct 2020
	Independent Environmental Checker	h	13 Oct 2020

Signatura



Appendix M

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for August 2020

 Department:
 Civil Engineering and Development Department
 Contract No.:
 CV/2016/10

 Contract Title:
 Site Formation and Assoicated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

 Commencement Date:
 15-Dec-2017
 Estimated completion Date
 22-Dec-2023
 Estimated Contract Sum:
 780M

		Actual Quantitie	s of Inert C&D N	laterials Generated	l Monthly			Actual Quantities	s of C&D Wastes	Generated Monthly	r
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	34.748	0.000	9.595	0.000	25.153	0.000	0.000	0.000	0.000	0.000	0.070
Feb	48.481	0.000	5.352	0.000	43.129	0.000	0.000	0.000	0.000	0.000	0.214
Mar	16.411	0.000	14.155	0.000	2.256	0.000	0.000	0.000	0.000	0.498	0.222
Apr	10.024	0.000	8.924	0.000	1.100	0.000	0.000	0.000	0.000	0.000	0.176
May	9.923	0.000	9.383	0.000	0.540	0.000	0.000	0.000	0.000	0.000	0.052
June	15.159	0.000	14.439	0.000	0.720	0.000	0.000	0.000	0.000	0.000	0.040
Sub-total	134.746	0.000	61.848	0.000	72.898	0.000	0.000	0.000	0.000	0.498	0.774
July	9.201	0.000	8.523	0.000	0.678	0.000	0.000	0.000	0.000	0.000	0.188
Aug	3.361	0.000	1.567	0.000	1.794	0.000	0.000	0.000	0.000	0.000	0.204
Sept	3.978	0.000	1.980	0.000	1.998	0.000	0.000	0.000	0.000	0.000	0.037
Oct											
Nov											
Dec											
Total	151.286	0.000	73.918	0.000	77.368	0.000	0.000	0.000	0.000	0.498	1.203

Notes: (1) The waste flow table should cover the whole construction period of the Contract.

(2) The original estimates of the C&D materials should be the estimates at contract commencement and should not be altered during construction.

(3) Inert C&D materials that are specified in the Contract to be imported for use at the Site shall be separately indicated.

(4) The yearly estimates of the C&D materials should be updated as appropriate taking into account the latest works programme etc.

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

(6) Broken concrete for recycling into aggregates.

Name of Department: CEDD

	A	ctual Quantities	of Inert C&D N	Iaterials Gener	rated Monthl	у	Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
JAN	8926.560	0.000	0.000	0.000	8926.56	0.000	0.000	0.000	0.000	0.000	50.290	
FEB	588.150	0.000	0.000	0.000	588.15	0.000	0.000	0.000	0.000	0.000	40.800	
MAR	12694.520	0.000	0.000	0.000	12694.52	0.000	0.000	0.000	0.000	0.000	11.660	
APRIL	1664.920	0.000	0.000	0.000	1664.92	0.000	0.000	0.000	0.000	0.000	6.110	
MAY	958.450	0.000	0.000	0.000	958.45	0.000	0.000	0.000	0.000	0.000	5.160	
JUN	2010.780	0.000	0.000	0.000	2010.78	0.000	0.000	0.000	0.000	0.000	10.560	
Sub Total	26843.380	0.000	0.000	0.000	26843.380	0.000	0.000	0.000	0.000	0.000	124.580	
JUL	931.700	0.000	0.000	0.000	931.700	0.000	0.000	0.000	0.000	0.000	15.720	
AUG	353.240	0.000	0.000	0.000	353.240	0.000	0.000	0.000	0.000	0.000	4.370	
SEP	806.780	0.000	0.000	0.000	806.780	0.000	0.000	0.000	0.000	0.000	10.080	
OCT												
NOV												
DEC												
Total	28935.100	0.000	0.000	0.000	28935.100	0.000	0.000	0.000	0.000	0.000	154.750	

Monthly Summary Waste Flow Table for 2020

Name of Department: CEDD

	Forecast of Total Quantities of C&D Materials to be Generated from the Contract (see Note 4)										
Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metal	Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	
0	0	0	0	0	0	0	0	0	1	0	

Notes:

(1) The performance targets are given in PS clause 6(14) above.

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

(3) Plastic 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

- Hard Rocks and Large Broken Concrete = Cannot be defined at this stage
- Imported Fill = Estimated by the Contractor
- Metal = Estimated by the Contractor
- Paper/cardboard packaging = Estimated by the Contractor
- Plastics = Estimated by the Contractor

- Chemical Waste = Estimated by the Contractor (Spent lubricating oil, assume density 0.9kg/L)

- Other, e.g. general refuse = Estimated by the Contractor



Appendix N

Implementation Schedule for Environmental Mitigation Measures

Note: Chapters 1 to 3 of the EIA report present the background information of the Project, identified concurrent projects, objectives and scope for various environmental aspects, and description on alternative options and construction description. Chapters 4 to 12 of the EIA report present the EIA findings and mitigation measures are described below with cross-reference to the EIA report. Chapters 13 to 15 describe the environmental monitoring requirements and conclusion.

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Common Mitig	ation Measures (Applicable to ALL Project Components, including D	Ps and Non-DPS)				
Construction D	ust Impact					
S4.4.5.2	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	APCO To control the dusi impact to meet HKAQO and TM-EIAC criteria
S4.4.5.3	Water spraying every hour for all active works area.	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	APCO To control the dust impact to meet HKAQO and TM-EIAO criteria
S4.4.5.2	 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 wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Vehicle wheel washing facilities should be provided at each construction 	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	APCO To control the dust impact to meet HKAQO and TM-EIAO criteria

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels;					
	• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;					
	• The portion of any road leading only to construction 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;					
	• 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;					
	• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system;					
	• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.					

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S4.4.5.1	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected representative dust monitoring station	Construction phase	• TM-EIAO
S4.4.5.3	 All road surface within the barging facilities will be paved. Dust enclosures will be provided for the loading ramp, installation of 3-sided screen with top cover and the provision of water sprays at the discharge point would be provided. Vehicles will be required to pass through designated wheel wash facilities. Continuous water spray at the loading point. 	Minimise dust impact at the nearby sensitive receivers	Contractor	Barging point at Siu Lam	Construction phase	• TM-EIAO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Construction Noise						
\$5.5.5.3	 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 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 direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; mobile plant should be sited as far away from NSRs as possible and practicable; material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from onsite construction activities. 	Control construction noise	Contractor	All construction sites	Construction phase	• Annex 5, TM-EIAO
S5.5.5.5	Adopt quiet plants during the construction of viaduct, widening of Sha Ling Road, construction of platform for crematorium and widening of Lin Ma Hang Road. The quiet plants should be made reference to the PME listed in the TM or the QPME/ other commonly used PME listed in EPD web pages or taken from BS5228: Part 1: 2009 Noise Control on Construction and Open Sites as far as possible.	Reduce the noise levels of plant items	Contractor	Works area for construction of viaduct, widening of Sha Ling Road, construction of platform for crematorium and widening of Lin Ma Hang Road		• Annex 5, TM-EIAO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S5.5.5.6	Install temporary noise barriers (in the form of site hoardings, approx. 2.4m 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 noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	Construction phase	• Annex 5, TM-EIAO
S5.5.5.7 – S5.5.5.12	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered upper portion of superficial density no less than 7kg/m^2 on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators etc.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	• Annex 5, TM-EIAO
\$5.5.5.13	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction noise	Contractor	All construction sites where practicable	Construction phase	• Annex 5, TM-EIAO
S13.2.1.1 – S13.4.1.2	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected representativ e noise monitoring station	Construction phase	• TM-EIAO
Operational Noise (Road	d Traffic Noise)			1	L	
S5.6.6.4	 Provide a series of noise mitigation measures including absorptive noise barriers and low noise road surfacing materials along Lin Ma Hang Road and Sha Ling Road before operation of the proposed project for existing and planned representative NSRs. Locations of noise mitigation measures are stated as following: <i>For existing representative NSRs</i> Approx. 12m of absorptive noise barrier 2.5m above road level along Sha Ling Road (MM1); Approx. 92m of absorptive noise barrier 2.5m above road level along Sha Ling Road (MM2); 	Reduce operation noise from road traffic	Contractor	Refer to Figures 5.6.9 – 5.6.13 of the EIA Report	Prior to operation of the Project for existing representative NSRs. While for barriers to protect planned representative NSRs, it should constructed before intake of planned representative NSRs.	

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	• Approx. 28m of absorptive noise barrier 3m above road level along Project Road near Sha Ling Road (MM3);					
	• Approx. 51m of absorptive noise barrier 3m above road level along Project Road near Sha Ling Road (MM4);					
	 Approx. 25m of absorptive noise barrier 4m above road level along Lin Ma Hang Road near San Uk Ling (MM5); 					
	• Approx. 21m of absorptive noise barrier 4m above road level along Lin Ma Hang Road near San Uk Ling (MM6);					
	• Approx. 14m of absorptive noise barrier 4m above road level along Lin Ma Hang Road near San Uk Ling (MM7);					
	 Approx. 18m of absorptive noise barrier 3m above road level along Lin Ma Hang Road near San Uk Ling (MM8); 					
	• Approx. 42m of absorptive noise barrier 3m above road level along temporary pullover space opposite San Uk Ling (MM9);					
	 Approx. 93m of absorptive noise barrier 3m above road level along Lin Ma Hang Road opposite San Uk Ling (MM10); 					
	• Approx. 185m of low noise surfacing materials along Lin Ma Hang Road near San Uk Ling (MM11);					
	For planned representative NSRs					
	 Approx. 36m of absorptive noise barrier 5m above road level along Lin Ma Hang Road near Muk Wu Nga Yiu (MM12); 					
	 Approx. 47m of absorptive noise barrier 5m above road level along Lin Ma Hang Road near Muk Wu Nga Yiu (MM13); 					
	 Approx. 31m of absorptive noise barrier 5m above road level along Lin Ma Hang Road near Muk Wu Nga Yiu (MM14); 					
	 Approx. 31m of absorptive noise barrier 5m above road level along Lin Ma Hang Road near Muk Wu Nga Yiu (MM15); 					
	 Approx. 41m of absorptive noise barrier 5m above road level along Lin Ma Hang Road near Muk Wu Nga Yiu (MM16); 					

EIA Ref.	Recommended Mitigation Measures	ObjectivesoftheRecommendedMeasures &Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	• Approx. 340m of low noise surfacing materials along Lin Ma Hang Road near Muk Wu Nga Yiu (MM17).					

EIA Ref.	Recommended Mitigation Measures	ObjectivesoftheRecommendedMeasures&Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Water Quality (Construc	tion Phase)					
S6.4.4.1 – S6.4.4.3	 In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: General Site Operation At the start of site establishment, perimeter cut-off drains to direct offsite water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. 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. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; Diversion of natural stormwater should be avoided 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 minimise polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the 	To minimise water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction phase	• Water Pollution Control Ordinance • ProPECC PN1/94 • TM-EIAO • TM-DSS
	guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of					

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction;					
	• Construction works should be programmed to minimise 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;					
	• If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;					
	• 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;					
	• All open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;					
	• Manholes (including newly constructed ones) should always be covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers;					
	• Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes;					

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	 All vehicles and plant should be cleaned before leaving a construction 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 site exit where practicable. Washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; 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 solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds 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. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the water bodies, marsh and ponds; Adopt best management practices. 					
S6.4.4.4 – S6.4.4.5	 Sewage from workforce Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance; 	To minimise water quality from sewage effluent	Contractor	All construction sites where practicable	Construction phase	Water Pollution Control Ordinance TM-DSS

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EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	 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 phase of the Project; Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. 					
S6.4.4.6	 Operation of Barging Point at Siu Lam All barges should be fitted with tight bottom seals to prevent leakage of materials during transport; Barges or hoppers should not be filled to a level that will cause overflow of materials or polluted water during loading or transportation; All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Mitigation measures for land-based activities as outlined in Section 6.4.4 should be applied to minimise water quality impacts from site runoff and open stockpile spoils at the proposed barging facilities where appropriate. 	To minimise water quality from operation of barging point at Siu Lam	Contractor	All construction sites where practicable	Construction phase	Water Pollution Control Ordinance TM-DSS
Water Quality (Operat	tional Phase)					
S6.5.4.1 – S6.5.4.6	 The following mitigation measures during operational phase are recommended: Sewage and wastewater discharge should be connected to foul sewerage system; Proper drainage systems with silt traps and oil interceptors should be installed; 	To minimise the road runoff, wastewater discharge and erosion of seasonal watercourse during the operational phase	Highways Department / Contractors	Whole alignment	Construction / Operational Phase	Water Pollution Control Ordinance TM-DSS

EIA Ref.	Recommended Mitigation Measures	ObjectivesoftheRecommendedMeasures&Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	 The design of road gullies with silt traps should be incorporated especially for the catchment leading to the existing wet woodland area located at the north of the site; The silt traps and oil interceptors should be cleaned and maintained regularly, especially before peak seasons of the visitors in Ching Ming Festival and Chung Yeung Festival; Energy dissipaters should be installed at the seasonally wet watercourses to reduce the magnitude of the first flush in order to minimise the erosion impact to the wet woodland. 					

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Waste Management	(Construction Waste)					
\$7.3.3.8	Construction & Demolition Material Management Plan (C&DMMP)	To enhance the management of	Contractor	All	Construction phase	Project
	• A C&DMMP shall be submitted to the Public Fill Committee for approval in the case of C&D materials disposal exceeding 50,000m ³ .	construction and demolition (C&D) material including rock in public works projects		construction sites		Administrative Handbook for Civil Engineering Works, 2012 Edition
\$7.3.4.2	Good Site Practice	Minimise waste generation	Contractor	All	Construction phase	• Waste Disposal
	The following good site practices are recommended throughout the construction activities:	during construction		construction sites		Ordinance
	• nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection 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 collection for disposal;					
	• appropriate measures to minimise 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;					
	• a Waste Management Plan (WMP) should be prepared by the contractor and submitted to the Engineer for approval.					
\$7.3.4.3	Waste Reduction Measures	Reduce waste generation	Contractor	All	Construction phase	• Waste Disposal
	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:			construction sites		Ordinance
	• segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;					

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	 proper storage and site practices to minimise the potential for damage and contamination of construction materials; plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (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. 					
S7.3.4.5	Storage of Waste The following recommendation should be implemented to minimise the impacts: • non-inert C&D materials 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;	Good site practice to minimise the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction phase	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005
\$7.3.4.6	Collection and Transportation of Waste The following recommendation should be implemented to minimise the impacts: • remove waste in timely manner; • employ the trucks with cover or enclosed containers for waste transportation; • obtain relevant waste disposal permits from the appropriate authorities; and • disposal of waste should be done at licensed waste disposal facilities.	Minimise waste impacts from storage	Contractor	All construction sites	Construction phase	• Waste Disposal Ordinance
S7.3.4.8 – S7.3.4.15	 <u>Excavated and C&D Materials</u> 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 	Minimise waste impacts from excavated and C&D materials	Contractor	All construction sites	Construction phase	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	backfilling;					• ETWB TCW No.
	• carry out on-site sorting;					19/2005
	• make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and					Project Administrative
	• implement a recording system for the amount of waste generated, recycled and disposed of for checking.					Handbook for Civil Engineering Works,
	The recommended C&D materials handling should include:					2012 Edition
	• On-site sorting of C&D materials;					
	• Reuse of C&D materials; and					
	• Use of Standard Formwork and Planning of Construction Materials purchasing.					
S7.3.4.17 – S7.3.4.18	Chemical Waste	Control the chemical waste and	Contractor	All	Construction phase	• Waste Disposal
	If chemical wastes are produced at the construction 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 Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	ensure proper storage, handling and disposal.		construction sites		 (Chemical Waste) General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste
\$7.3.4.19	 <u>General Refuse</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 collection 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. 	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction phase	• Waste Disposal Ordinance
\$7.3.4.20	 Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, 	Minimise production of sewage impacts	Contractor	All construction sites	Construction phase	• Waste Disposal Ordinance

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	 site condition and activities. Regularly collection by licensed collectors should be arranged to minimise potential environmental impacts. 					
Waste Management (Opera	ational Waste)					
S7.4.4.1	General Refuse A reputable waste collector should be employed to remove general refuse on a daily basis.	Remove general refuse during routine road cleaning activities on the roads network and avoid odour, pest and litter impacts	Contractor	Roads network for the C&C facilities and Lin Ma Hang Road	Operational phase	• Waste Disposal Ordinance

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Land Contamination						
S8.9.1.1	Re-appraisal of the potentially contaminated site (SRC-1)	Identify any hot spots for SI within the southeast and western portions of SRC-1	• •	Potentially contaminated site (SRC-1)	Once the works area for the Project is confirmed and site access is available (e.g. after land resumption)	• Annex 19 of the TM- EIAO, Guidelines for Assessment of Impact On Sites of Cultural Heritage and Other Impacts (Section 3 : Potential Contaminated Land Issues);
						Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management;
						• Guidance Notes for Contaminated Land Assessment and Remediation; and
						• Practice Guide for Investigation and Remediation of Contaminated Land
						• Recommendations in Health Risk Assessment
S8.11.1.1	Preparation and submission of Contamination Assessment Plan (CAP) to EPD for review and approval, if required	Present the findings of the re- appraisal and strategy of the recommended SI, if required		Potentially contaminated site (SRC-1)	After land resumption and prior to the construction phase	Ditto
\$8.11.1.2	Preparation and submission of Contamination Assessment Report (CAR) to EPD for review and approval, if required	Present the findings of SI, if any, and evaluate the level and extent of potential contamination	Project Proponent / Detailed Design Consultant	Potentially contaminated site (SRC-1)	Prior to the construction phase	Ditto

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S8.11.1.2	Preparation and submission of Remediation Action Plan (RAP) to EPD for review and approval if contamination is identified	Recommend appropriate mitigation measures for the contaminated soil and groundwater identified in the assessment if remediation is required	Detailed Design Consultant	Potentially contaminated site (SRC-1)	Prior to the construction phase	Ditto
S8.11.1.2	Preparation and submission of Remediation Report (RR) to EPD for review and approval following the completion of any necessary remediation works	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed CAR and RAP	Detailed Design	Potentially contaminated site (SRC-1)	Prior to the construction phase	Ditto

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EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Ecology (Construction	Phase)					
\$9.7.2.3	Preparation and submission of Upland Grassland Reinstatement Plan to EPD for agreement.	An Upland Grassland Reinstatement Plan will be prepared by a qualified ecologist/botanist with full details of the findings of a baseline grassland survey, the practical details and methodology of the physical excavation, transport and storage or turves/topsoil and their subsequent reinstatement once the receptor sites have been established, along with an implementation programme of reinstatement, post- reinstatement monitoring and maintenance programme. A contingency plan should be proposed in the Grassland Reinstatement Plan so as to describe the action and limit levels and the action plan if certain performance criteria (such as area of preferred habitat) are not met during the monitoring and maintenance period.	Project Proponent/ Detailed Design Consultant (qualified ecologist/ botanist) for Upland Grassland Reinstatement Plan	Engineered slopes of Crematorium Indicative locations for Grassland Reinstatement should be referred to Figure 9.11 of the EIA Report	Prior to construction phase	 Reinstatement and establishment requirements to be detailed in Upland Grassland Reinstatement Plan TM-EIAO
S9.7.2.5 – S9.7.2.6	Preparation and submission of a Vegetation Survey Report and Transplantation Proposal (if needed as concluded in the Vegetation Survey Report) to EPD for agreement.	The Vegetation Survey will report the presence, as well as update the conditions, number, locations and habitat types of any identified floral species of conservation importance to be impacted by the development,	Project Proponent/ Detailed Design Consultant (qualified ecologist/ botanist) for	Within the Project Area where applicable	Prior to construction phase	• Survey findings and transplantation methodology to be detailed in Vegetation Survey Report and Transplantation Plan

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		and evaluate suitability and/or practicality of transplantation. The Transplantation Proposal will recommend locations of the receptor site(s), transplantation methodology, implementation programme of transplantation and post-transplantation monitoring and maintenance programme.	Vegetation Survey Report and Transplantation Proposal.			respectively. • TM-EIAO.
\$9.7.5.3 – \$9.7.5.5, \$9.8.1.6	Preparation and submission of Enhancement Woodland Proposal to EPD for agreement.	Recommend appropriate enhancement planting programme, planting and post-transplantation monitoring methodology, action plan for monitoring the enhancement planting and maintenance programme.	Project Proponent/ Detailed Design Consultant (qualified ecologist/ botanist) for Wooded Area Proposal.	Filled slope west of the platform, and north west of the platform in the valley below MacIntosh Fort Indicative locations for Enhancement Woodland should be referred to Figure 9.11 of the EIA Report	Prior to construction phase	 Enhancement planting and establishment requirements to be detailed in Wooded Enhancement Proposal. TM-EIAO
S9.7.3.1 – S9.7.3.3	Indirect impacts due to potential changes in water quality, hydrology and sedimentation could occur to a series of downstream watercourses and wetland systems (including the wet woodland, marsh and mitigation ponds) during both the construction (for the Platform and LMHR widening works) and operational stages. Generally, indirect water impact to any aquatic fauna during the construction phase should easily be avoided by implementing water control measures (ETWB TCW No. 5/2005) to avoid direct or indirect impacts any watercourses and good site practices (further details are discussed in Section 6 of the EIA Report).	Minimise the indirect impacts to Water Quality and Hydrology	Contractor /detailed design consultant.	On the edge of any active works area, 30m from the watercourse	Prior to commencement and during construction phase	• ETWB TCW No. 5/2005 • TM-EIAO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
	In addition, construction phase impacts on the watercourses, riparian corridor and fauna using these areas will be minimised by erection of a 2m high, solid, dull green site boundary fence on the edge of any active works area, 30m from the watercourse. Where this is not practicable due to site constraints, demarcation fencing will need to be erected to prevent unauthorised encroachment into the riparian corridor by constructions works and traffic. Detailed mitigation measures will be designed at the detailed design stage.					
S9.7.3.4 – S9.7.3.6	Mitigation for noise disturbance (details refer to \$5.5.5 to \$5.6.6 of this table). Site formation and construction are tentatively proposed to cover a 65-month period from mid 2017 to late 2022. As a precautionary approach, consideration should be given at the detailed design stage to avoid the use of highly reflective materials in the design and implementing the use of opaque materials, fritting, breaking up external reflections with stickers or plastic wrap and/or any other bird-friendly design for noise barriers. Works will be restricted to daytime and any construction lighting should be designed and positioned as to not impact on adjacent ecologically sensitive areas.	The construction work and site formation will be phased in order to reduce overall noise disturbance impacts in particular areas. Collisions usually occurs as a result of birds perceiving a clear path through an object that is transparent or appears to be transparent at some distance, or if the noise barrier is highly reflective which would appear to be composed of the adjacent natural vegetation. Furthermore, mitigation measures to control noise disturbance during this phase will involve the selection of quieter plant, use of movable noise barriers and erection of hoarding and fencing to demarcate the site boundary	Contractor Project Proponent	All construction sites	Prior to commencement and during construction phase	• TM-EIAO.

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
\$.9.7.3.7	 In order to demonstrate ecological awareness and to minimise the risk of indirect impacts from water pollution and hill fires, a series of good site practices should be adopted by site staff throughout the construction phase at each works site. These are as follows: Put up signs to alert site staff about any locations which are ecologically sensitive and measures to prevent accidental impacts; Erection of temporary geotextile silt or sediment fences/oil traps around any earth-moving works to trap any sediments and prevent them from entering watercourses; Prohibition of soil storage against trees or close to waterbodies; Delineation of works site to prevent encroachment onto adjacent habitats and fence off areas which have some ecological value; No smoking, hot works or sources of fire close to upland grassland; No on-site burning of waste; and Waste and refuse in appropriate receptacles. 	Minimise impacts on hydrological condition and water quality of hillside watercourses and reduce chances of hillfires.	Contractor	All construction sites	Prior to commencement and during construction phase	• TM-EIAO.
S.9.7.3.9	Precautionary checks by a suitably experienced ecologist of the vegetation for the presence of nesting birds should be carried out in the breeding season (February to July) before vegetation clearance. These impacts can be avoided by conducting vegetation clearance during the non-breeding season (tentatively August-January) and phased through the project period to minimise impacts.	Minimise the impacts to breeding birds within the works areas.	Contractor	All construction sites	Prior to site clearance	• TM-EIAO • WAPO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S9.7.2	Establishment, maintenance and monitoring of a Upland Grassland Reinstatement Area	Reinstatement of upland grassland and to maintain connectivity in Sandy Ridge.	Project Proponent / Contractor / Maintenance Authority	Engineered slopes of Crematorium Indicative locations for Grassland Reinstatement should be referred to Figure 9.11 of the EIA Report	Operational phase	 Monitoring methodology and successfulness of survival of upland grassland should follow Upland Grassland Reinstatement Plan. TM-EIAO.
S9.7.5.3 – S9.7.5.6	Establishment, maintenance and monitoring of an enhancement woodland	Recommend appropriate enhancement planting programme, planting and post- transplantation monitoring methodology, action plan for monitoring the enhancement planting and maintenance programme.	Project Proponent/ Detailed Design Consultant (qualified ecologist/ botanist) for Wooded Area Proposal.	Filled slope west of the platform, and north west of the platform in the valley below MacIntosh Fort Indicative locations for Enhancement Woodland should be referred to Figure 9.11 of the EIA Report	Operational phase	 Enhancement planting and establishment requirements to be detailed in Wooded Area Proposal. TM-EIAO.
S9.7.4.1 – S9.7.4.5	 Mitigation for Impacts to Water Quality and Hydrology (Operational Phase) Stormwater drainage system will be further developed in detailed design stage to collect dusty materials from water collected from the platform and associated road system. Silt traps will be installed to ensure removal of dusty materials. Regular cleaning will be conducted to avoid debris entering downstream rivers during first flush; and The proposed small diameter bore pile system at the foundation of the proposed platform structure. 	Specific mitigation measures will be implemented to prevent indirect impacts wetland habitats and fauna. Mitigation measures are to be further developed in the detailed design stage to address any water quality impacts due to the drainage from the proposed platform, and any erosion issues due to the drainage from the	Detailed Design Consultant	Wet woodland (and further down the marsh and mitigation ponds) and the seasonal watercourse to the east of the Project boundary	Detailed Design phase/Operational phase	• TM-EIAO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		proposed platform. The surface runoff collected on the platform will be captured by a stormwater drainage system, which will be further developed at the detailed design stage The proposed small diameter bore pile system at the foundation of the proposed platform structure would allow a notional free area of about 87 – 91% for groundwater to pass through				
\$9.7.4.6 – \$9.7.4.7	 <u>Minimise the potential indirect light disturbance on the Street Lighting on</u> <u>fireflies surrounding the Project Site during operational phase</u> It is considered that at the detailed design stage, street lighting of similar lux/light intensity as to what is currently present is utilised. Furthermore, as a precautionary measure, it is suggested that deflectors are fixed to the back of the street lights to prevent additional light reaching the marsh and causing adverse impacts to fireflies. 	Reduce light pollution and impact on the nearby habitats and their associated wildlife groups, particularly nocturnal fireflies.	Detailed Design/ Consultant/ Operator	The whole Project area	Detailed Design phase/Operational phase	• TM-EIAO
S9.7.4.9 – S9.7.4.9	The increase in visitors to the columbarium allows greater public access to the upland grassland of Sandy Ridge and in turn, the potential for hill fires is also increased. Fires may emanate from discarded cigarettes and from specific practices during festivals or grave-sweeping. In order to reduce the risk of hill fires, sufficient educational signage should be displayed throughout the columbarium warning people of the risks of fire and strictly prohibits practices that could cause hill fires. This will require input in the detailed design phase.	Minimise the risk of hill fires.	Detailed Design/ Consultant/ Operator	The whole Project area	Detailed Design phase/Operational phase	• TM-EIAO

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation	Location / Timing	Implementation	Requirements and / or standards to be achieved
Fisheries						
S10.5.1.1	No loss of fish ponds is anticipated and no <i>in situ</i> mitigation is required. However, mitigation measures for water quality (S6.4.4 – S6.5.4 in this table) proposed are also pertinent in ensuring that fisheries impacts of the Project do not occur downstream of the Project area either locally or in Inner Deep Bay.	-	-	-	-	-

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
Landscape & Visual						
S11.8.1.3, Table 11.9	CM1 – The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape, and the reliance on off-site construction.	Minimise landscape impact and visual impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Construction phase	-
S11.8.1.3, Table 11.9	CM3 – Screening of construction works by hoardings/noise barriers around works area in visually unobtrusive colours and to screen construction works. It is proposed that screening be compatible with the surrounding environment and non-reflective, recessive colours be used. Hoarding should be taken down at the end of the construction period.	Minimise visual impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Construction phase	-
S11.8.1.3, Table 11.9	CM4 – Dust and Erosion Control for Exposed Soil - Excavation works and demolition of existing building blocks shall be well planned with precautions to suppress dust. Exposed soil shall be covered or watered often. Areas that are expected to be left with bare soil for a long period of time after excavation shall be properly covered with suitable protective fabric. Suitable drainage shall be provided around construction sites to avoid discharge of contaminants and sediments into sensitive water-based habitat.	Minimise indirect landscape impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Construction phase	-
S11.8.1.3, Table 11.9	CM5 – Control night-time lighting and glare by hooding all lights.	Minimise visual impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Construction phase	-

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S11.8.1.3, Table 11.9	CM6 – Tree Protection and Preservation – Woodland, plantation and other vegetation within the Study Area will be protected and preserved as far as possible in accordance with ETWB TCW No. 29/2004 - Registration of Old and Valuable Trees, and Guidelines for their Preservation and DEVB TCW No.07/2015 – Tree Preservation. Detailed Design Considerations are made to avoid impacts to trees, e.g. proper viaduct/ bridge design routing to avoid majority of the woodland, locating the columbarium buildings in areas with less trees and ensuring design of the buildings has as small a footprint as practical.	Minimise landscape impact and visual impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Construction phase	 DEVB TC(W) 07/2015 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DevB
S11.8.1.3, Table 11.9	CM7 – Tree Transplantation – Tree(s) will be affected according to the Tree Preservation and Removal Proposal to be carried out in a later stage. Established trees of value are to be re-located where practically feasible.	Minimise landscape and visual impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Design and Construction phase	 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', issued January 2011, Greening, Landscape and Tree Management (GLTM) Section, DevB Latest recommended horticultural practices from GLTM Section, DevB

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S11.8.1.3, Table 11.9	CM8 - Implementing precautionary control measures during construction stage accordingly to ETWB TCW No. 5/2005 – Protection of natural streams/rivers from adverse impacts arising from construction works to avoid direct or indirect impacts any watercourses and good site practices.	Minimize landscape impact	Funded by CEDD and implemented by Contractor	Work site/ during construction	Design and Construction phase	• ETWB TCW No. 5/2005 – Protection of natural streams/rivers from adverse impacts arising from construction works
S11.8.1.3, Table 11.9	OM1 – Compensatory Woodland Planting - The arrangement of compensatory planting (e.g. areas of woodland to be compensated and space to be allowed within the Project Site) will be subject to detailed engineering design, landscape design and planting plan, and is recommended to be implemented prior to the construction activities as far as practical.	Compensate the loss of landscape greenery and enhance the overall visual value of the site.	Funded by CEDD and implemented by Contractor	Within Project Site	Prior to Construction phase	 DEVB TC(W) 07/2015 – Tree Preservation Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DevB DEVB TCW No. 06/2015 – Maintenance of Vegetation and Hard Landscape Features

EIA Ref.	Recommended Mitigation Measures	ObjectivesoftheRecommendedMeasures&Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S11.8.1.3, Table 11.9	OM2 – Compensatory Tree Planting for Plantation and Other Vegetated Areas - Compensatory planting should be provided in accordance with DEVB TCW No. 07/2015 to compensate for those trees felled. According to the preliminary design, compensatory trees will be planted on the cut/fill slopes, along new roads and in car parks. The selection of planting species shall be made with reference to the species identified in the future Detailed Tree Survey and be native to Hong Kong or the South China region.	Compensate the loss of landscape greenery and enhance the overall visual value of the site.	Funded by CEDD and implemented by Contractor	Within Project Site	Construction phase	 DEVB TC(W) 07/2015 – Tree Preservation Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DevB DEVB TCW No. 06/2015 – Maintenance of Vegetation and Hard Landscape Features
S11.8.1.3, Table 11.9	OM3 – Amenity Planting and aesthetic streetscape design of hard landscaping for Pedestrian Walkway, Roadside - Roadside amenity planting should be provided along Sha Ling Road, Lin Ma Hang Road, as well as the internal road within Sandy Ridge columbarium and crematorium site; to enhance the landscape quality of the existing and proposed transport routes. Climbers are proposed to cover vertical, hard surfaces of the piers of the proposed viaducts, and also the newly formed retaining wall within the site. Shade tolerant plants will be planted, where light is sufficient, to improve aesthetic value of areas under viaducts.	Minimise visual impact and also enhance landscape.	Funded by CEDD and implemented by Contractor	Within Project Site	Construction phase	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB DEVB TCW No. 06/2015 – Maintenance of Vegetation and Hard Landscape Features
S11.8.1.3, Table 11.9	OM4 – Greening Works and Contour Grading Works on Cut/ Fill Slopes - Greening works such as hydroseeding/ terraces of shrub or tree planting will be provided where slope gradient allows, according to Geotechnical Engineering Office (GEO) Publication No.1/2011 Technical Guidelines on Landscape Treatment for Slopes.	Minimise landscape and visual impact	Funded by CEDD and implemented by Contractor	Within Project Site	Construction phase	Geotechnical Engineering Office (GEO) Publication No.1/2011 Technical Guidelines on Landscape Treatment for Slopes.

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S11.8.1.3, Table 11.9	OM5 – Landscape design treatment to be provided by relevant government department.	Mitigate the loss of greenery and enhance the overall landscape and visual value	Funded by FEHD and implemented by Contractor	Within Project Site	After handover to the relevant department	-
S11.8.1.3, Table 11.9	OM6 – Architectural and chromatic treatment of the hard architectural and engineering structures and facilities.	Mitigate the loss of greenery and enhance the overall landscape and visual value	Funded by FEHD and implemented by Contractor	Within Project Site	After handover to the relevant department	-
S11.8.1.3, Table 11.9	OM7 – Aesthetic design of the proposed noise barriers.	Mitigate the visual impact	Funded by CEDD and implemented by Contractor	Along Sha Ling Road and Lin Ma Hang Road	Construction phase	• WBTC No. 36/2004 - ACABAS - submission is required to ACABAS for approval of any bridges and associated structures within the public highway system.
S11.8.1.3, Table 11.9	OM8 - Silt traps should also be incorporated into design of road gullies for the natural water stream(s).	Minimise the landscape impact on natural stream	Funded by CEDD and implemented by Contractor	Within Project Site	Construction Phase	

Notes:

(a) A detailed Tree Survey Report showing all identified valuable trees and OVT will be undertaken in a separate Tree Preservation and Removal Proposal.

(b) Wood resulting from tree removal should be recycled as mulch or soil conditioner for re-use within the Project or in other projects as far as possible e.g. for the construction of soft landscape work, were practical.

(c) Contractor is responsible for landscaping during the agreed establishment and maintenance period. Other designated management and maintenance agents to take up maintenance and management of landscaping after end of agreed period.

(d) Highways Department (HyD) is responsible for maintenance and management of landscaping of public road side slope, Leisure and Cultural Services Department (LCSD) is responsible for the management and maintenance of soft landscapes along non-expressway public roads outside Country Park and Food and Environmental Hygiene Department (FEHD) is responsible for maintenance and management of landscaping of other areas allocated to FEHD.

- (e) The landscape mitigation treatment of the future development site shall follow the below frameworks:
 - Buffer planting shall be provided to soften the edge of the site.
 - Aesthetic landscape treatment including both soft and hard landscape features shall be provided.
 - Vertical greening shall be provided as far as practicable.
 - At-grade tree planting shall be provided as far as possible while planting space is allowed, to enhance the overall environment.
 - Architectural design shall blend in with the surrounding environment.
 - Overall greening ratio shall comply with TC(W) No.3/2012 Site coverage of Greenery for Government Building Projects.

Recommended Mitigation Measures Recommended Measures & Main Concerns to address Agent Timing Stage / or standards to be achieved
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The compensatory woodland planting shall be included woodland mixed whips, seeding, and shrubs. The principle of the location shall be the extension of the existing woodland, as well as the original lost woodland location. The proposal will be agreed with AFCD, the woodland enhancement planting shall refer to Chapter 9.

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
EM&A Project						
S13.1.1.1, S13.2.1.2	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Highways Department	All construction sites	Construction phase	 • EIAO Guidance Note No.4/2010 • TM-EIAO
S13.2.1.1 – S13.4.1.2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department / Contractor	All construction sites	Construction phase	 • EIAO Guidance Note No.4/2010 • TM-EIAO



Appendix O

Implementation of Water Quality Mitigation Measures

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Water Quality Mitigation Measures under CV/2016/10 (Contract 1)



Water Quality Mitigation Measures under CV/2016/10 (Contract 1)



Water Quality Mitigation Measures under CV/2016/10 (Contract 1)



Water Quality Mitigation Measures under CV/2017/02 (Contract 2)



Water Quality Mitigation Measures under CV/2017/02 (Contract 2)



