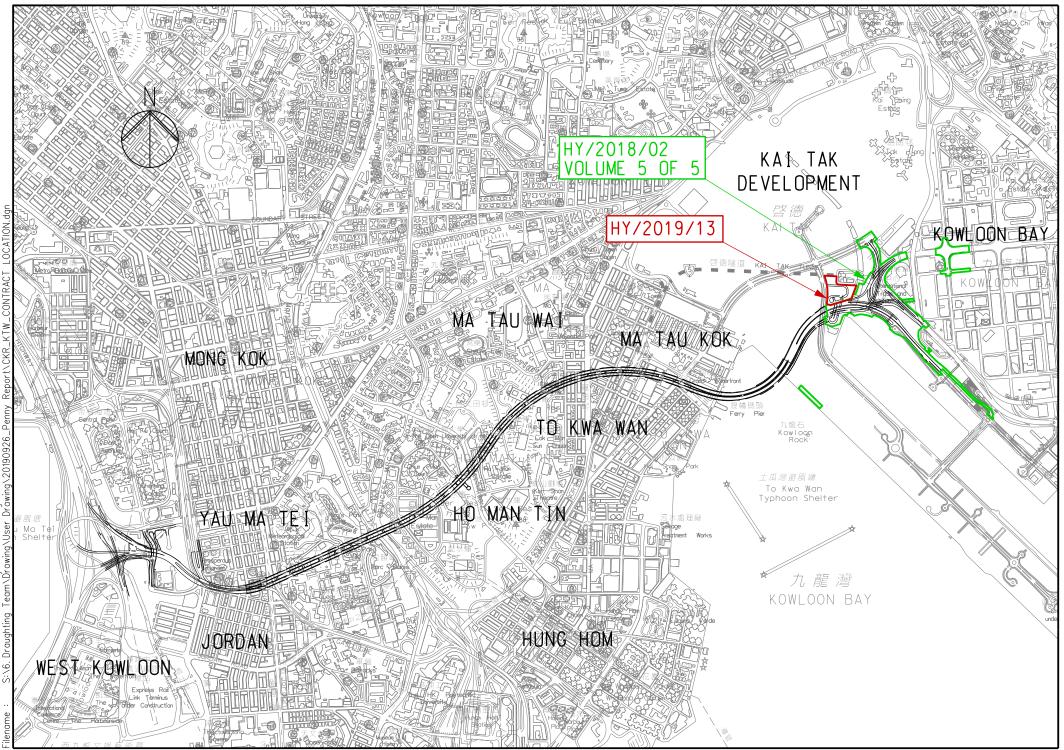
# **Vol. 5 of 5**

# EP-457/2013/D Central Kowloon Route Kai Tak East Contract No. HY/2018/02 & Buildings, Electrical and

Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area) July 2021



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# Central Kowloon Route Kai Tak East Contract No. HY/2018/02





#### Environmental Permit No. EP-457/2013/D

#### **Central Kowloon Route**

#### Independent Environmental Checker Verification

Works Contract:	Kai Tak East (HY/2018/02)

#### **Reference Document/Plan**

Document/ <del>Plan</del> to be Certified/ Verified:	Monthly EM&A Report No.23 (July 2021)
Date of Report:	6 August 2021 (Rev. 2)
Date received by IEC:	6 August 2021

#### **Reference EP Condition**

Environmental Permit Condition:

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

3.4

#### **IEC Verification**

I hereby verify that the above referenced document/<del>plan</del> complies with the above referenced condition of EP-457/2013/D.

Alandy 20.

Ms Mandy To Independent Environmental Checker Date:

6 August 2021

Our ref: 0436942\_IEC Verification Cert\_KTE\_Monthly EM&A Rpt No.23.docx



## Alchmex – Paul Y Joint Venture

## Central Kowloon Route Contract HY/2018/02

## Section of Kai Tak East

Monthly EM&A Report No. 23

(Period from 1 to 31 July 2021)

## Rev. 1

## (6 August 2021)

		Name	Signature
Prepared by		Philip Y. N. Chan (Environmental Consultant)	Philip
Checked Reviewed by	&	Nelson T. H. Tsui (Senior Environmental Consultant)	That
Approved Certified by	&	Kevin W. M. Li (Environmental Team Leader)	K.

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#### **EXECUTIVE SUMMARY**

- A.1 Alchmex Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This is the 23<sup>rd</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 July 2021 to 31 July 2021.
- A.2 A summary of major Construction activities by Contractor for the Project during the reporting month is listed below.

#### **Construction Activities undertaken**

- Bored Pile at Portion 2B, 3B & Kai Cheung U Turn.
- Pile Cap Construction at Kai Cheung Loop Road & Portion 2B
- Excavation Works for Adit at Area Part 1B.
- Excavation Works for Underpass at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah
- Retaining Wall Construction at Portion 2B
- Sheet piling Work at Area Part 1A.
- Central Divider Removal at Kai Fuk Road.
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (24-hour TSP) monitoring	
E-A1	5 times
Construction dust (1-hour TSP) monitoring	
E-A1	15 times

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 7, 14, 21 and 28 July 2021. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 14 July 2021. Details of the audit findings and implementation status are presented in Section 5.
- A.5 Bi-weekly inspection of the implementation of landscape and visual mitigation measures by ET was conducted on 7 and 21 July 2021. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 3.
- A.7 No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring were recorded during the reporting month.
- A.8 No complaint or non-compliance was received in the reporting month.
- A.9 No notification of summons and prosecution was received in the reporting period.

A.10 A summary of Construction Activities provided by Contractor in next reporting month is listed below:

#### **Construction Activities to be undertaken**

- Bored Pile at Portion 2B, 3B & Kai Cheung U Turn.
- Pile Cap Construction at Kai Cheung Loop Road & Portion 2B
- Excavation Works for Adit at Area Part 1B.
- Excavation Works for Underpass at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah
- Retaining Wall Construction at Portion 2B
- Sheet piling Work at Area Part 1A.
- Central Divider Removal at Kai Fuk Road.

#### **1. BASIC PROJECT INFORMATION**

- 1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.
- 1.2. The Central Kowloon Route Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021.
- 1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2018/02 Section of Kai Tak East (KTE) covers part of the construction activities located at Kai Tak under the EP which includes:
  - Section of Kai Tak East
  - i. construction of an approximately 700m long dual 2-lane Central Kowloon Route mainline at Kai Tak, including at-grade roads and bridges;
  - ii. construction of Kai Tak Interchange, including bridges, underpass, and associated at-grade slip roads, connecting the Central Kowloon Route with the existing road network;
  - iii. construction of a footbridge, and demolition/backfill of an existing subway across Kai Fuk Road;
  - iv. realignment of existing Kai Fuk Road, Kai Cheung Road and Kai Cheung Road/Kai Fuk Road loop road;
  - v. reconstruction of an approximately 30m long existing multi-cell box culvert;
  - vi. construction of an approximately 130m long underground ventilation and E&M audit;
  - vii. construction of Ring Road Underpass, connecting Central Kowloon Route mainline and Central Kowloon Route Administration Building;
  - viii. junction improvement works at existing Wang Kwong Road/Kai Cheung Road and Wang Kwong Road/Lam Hing Street junctions;
  - ix. arrangement and implementation of cross boundary disposal of construction and demolition materials; and
  - x. associated roadworks, drainage, waterworks, landscaping works, geotechnical works, and electrical and mechanical works.

The alignment and works area for the Contract No. HY/2018/02 - are shown in Appendix A.

1.4. A summary of major construction activities provided by the Contractor in this reporting period is shown in Table 1.1. The construction programme is presented in Appendix B.

# Table 1.1 Summary of Construction Activities provided by Contractor during this Reporting Month. Construction Activities undertaken

- Bored Pile at Portion 2B, 3B & Kai Cheung U Turn.
- Pile Cap Construction at Kai Cheung Loop Road & Portion 2B
- Excavation Works for Adit at Area Part 1B.
- Excavation Works for Underpass at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah
- Retaining Wall Construction at Portion 2B
- Sheet piling Work at Area Part 1A.
- Central Divider Removal at Kai Fuk Road.
  - 1.5. The project organisational chart specifying management structure and contact details are shown in Appendix C.
  - 1.6. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.2

Table 1.2 Summary of the Status of Val	lid Environmental Licence,
--	----------------------------

Permit/ Licences/	Valid Period			
Notification /Reference No.	From	То	Status	Remark
Environmental Permit		I I		
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Li	cense			•
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Constructi	on Works under	the Air Pollution	Control (Construct	ion Dust) Regulation
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Produce				
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Dispo				1
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permi	it			
GW-RE0348-21	27-Apr-21	26-Oct-21	Valid	General Work for Area A
GW-RE0273-21	2-Apr-21	1-Oct-21	Valid	General Work for Area B and Site Office
GW-RE0106-21	5-Feb-21	4-Aug-21	Valid	Kai Cheung U Turns
GW-RE0226-21	15-Mar-21	12-Sep-21	Valid	Portion 2B
GW-RE0586-21	18-Jun-21	31-Jul-21	Valid until 31-Jul-21	Installation of Loop Detector at Wang Kwong Rd
GW-RE0599-21	24-Jun-21	30-Jul-21	Valid until 30-Jul-21	Footbridge Defect Rectification at Kai Fuk Road

#### 2. ENVIRONMENTAL STATUS

2.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-457/2013/C and EP-457/2013/D) as of the reporting period for the Project are summarised in Table 2.1

Table 2.1 Summary of Status of Required Submission for EP-457/2013/C and EP-457/2013/D for the Project

EP Condition (EP-457/2013/C and EP-457/2013/D)	Submission	Submission date			
Condition 3.4	Monthly EM&A Report (June 2021)	14 Jul 2021			

2.2. The drawing showing the project layout and the location of the monitoring station and environmental sensitive receivers are attached in Appendix A and Appendix J. Co-ordinates of the monitoring location is shown in below:

Monitoring Location	Location ID	Latitude	Longitude
Hong Kong International Trade and Exhibition Centre	E-A1	22.323912	114.203512

#### **3.** MONITORING RESULTS

3.1. Monitoring Parameters

#### Air Quality

- 3.1.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.
- 3.1.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.
- 3.1.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.
- 3.2. Monitoring Equipment

#### **Air Quality**

- 3.2.1. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).
- 3.2.2. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in Appendix H.
- 3.2.3. A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 3.1. The TSP monitoring was conducted as per the schedule presented in Appendix G.
- 3.2.4. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	992821	27 Sep 2020
24-hour TSP	TE-5170X High Volume	1049	5 and 15 Jul 2021
	Sampler		
	TE-5025A Calibration Kit	3465	23 Sep 2020

 Table 3.1 Construction Dust Monitoring Equipment

3.3. Monitoring Methodology and QA/QC results

#### **Air Quality**

- 3.3.1. The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.
- 3.3.2. The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170x High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:
  - The HVS was set at the monitoring location, with electricity supply connected and secured;
  - HVS was calibrated before commencing the 1<sup>st</sup> measurement;
  - The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix I;
  - The airflow over time during sampling process was recorded by the HVS.
- 3.3.3. HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:
  - Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
  - A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
  - No furnace or incinerator flues was nearby;
  - Airflow around the sampler was unrestricted; and
  - Permission could be obtained to set up the samplers and gain access to the monitoring station.
  - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring
  - A secured supply of electricity is needed to operate the samplers.
- 3.3.4. Preparation of Filter Papers
  - Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
  - ♦ All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not varied by more than ±3°C; the relative humidity (RH)was 40%; and

• Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

#### 3.3.5. Field Monitoring

- The power supply was checked to ensure that the HVS was working properly;
- The filter holder and area surrounding the filter were cleaned;
- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 1.13-1.19 m<sup>3</sup>min<sup>-1</sup>, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m<sup>3</sup>min<sup>-1</sup>);
- The programmable timer was set for a sampling period of 24 hours ±hour, and the starting time, weather condition and filter number were recorded;
- The initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- The filters were sent to (Acumen Laboratory and Testing Ltd and ALS Technichem (HK) Pty Ltd) for analysis.
- 3.3.6. Maintenance and Calibration
  - The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
  - The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVS using TE-5025A Calibration Kit and TE-5028A Calibration KIT. HVS is calibrated in fortnightly Intervals. The calibration records for the HVS is given in Appendix H.
- 3.3.7. Wind Data Monitoring
  - The wind speed has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up if malfunction occurred or data was not recorded from HKO

#### 3.4. Monitoring Locations

#### Air Quality

3.4.1. During the site visit, air monitoring station Hong Kong International Trade and Exhibition Centre had been recommended in the approved EM&A Manual and approved by IEC. A designated air monitoring location was identified and agreed with IEC and EPD. Detail of the air monitoring station is described in Table 3.2. The location plan of air quality monitoring stations is shown in Appendix J.

#### Table 3.2 Location of the Dust Monitoring Station

Air Quality Monitoring Station	Dust Monitoring Station
E-A1	Hong Kong International Trade and Exhibition Centre

- 3.5. Monitoring date, time, frequency and duration
- 3.5.1. A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 3.3.

Impact Monitoring	Duration	Sampling Parameter	Frequency
Dust	1-hour continuous measurement	1-hour TSP	3 times per six days
Dust	24-hour continuous sampling	24-hour TSP	Once per six days

#### Table 3.3: Summary of Impact Monitoring Programme

3.6. Result Summary

#### Air Quality

3.6.1. According to our field observations, the major dust source identified at the designated air quality monitoring station in the reporting month are summarised in Table 3.4

	Bust Monitoring Station
Monitoring Station	Major Dust Source
E-A1	Nearby traffic

3.6.2. Air quality impact monitoring for the reporting month was carried out on 5, 9, 15, 21 and 27 July 2021 at E-A1.

3.6.3. The results for 1-hour TSP and 24-hour TSP are summarized in Table 3.5 and Table 3.6. The measurement data and details of influencing factors such as weather conditions and site observation are presented in Appendix K.

			, ,
<b>Monitoring Location</b>	Range(µg/m <sup>3</sup> )	Action Level(µg/m <sup>3</sup> )	Limit Level(µg/m <sup>3</sup> )
E-A1	50 - 78	279	500
Ta	ble 3.6 Summary of 24-h	our TSP Monitoring Result	S
<b>Monitoring Location</b>	Range(µg/m <sup>3</sup> )	Action Level(µg/m <sup>3</sup> )	Limit Level(µg/m <sup>3</sup> )
E-A1	24 - 61	142	260

Table 3.5 Summary of 1-hour TSP Monitoring Results

#### Waste management

3.6.4. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.7. Details of cumulative waste management data are presented as a waste flow table in Appendix L.

			Ç	Juantity		
				Non-inert C&	D Materials	
			Others,			
			e.g.	Recy	ycled material	S
D (* * 1	Inert C&D	Chemical	General			
Reporting period	Materials	Waste	Refuse			
	(in 'tonnes)	(in'000 Kg)	disposed			
			at	Paper/card board	Plastics	Metals
			Landfill	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)
			(in			
			'tonnes)			
July-2021	10,618.55	0.00	144.77	0.00	0.00	0.00

Table 3.7	Quantities	of waste	generated	from	the P	roiect
14010 017	X autorities	or maste	Someratea		une r	10,000

## 4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

4.1. The Environmental Complaint Handling Procedure is shown in below Table 4.1:

140	ble 4.1 Environmental Co		
Complaint Received via	Project Hotline	Complaint Received via	a 1823 or from other
		government departments	
Contractor notify ER, ET	L and IEC	ER notify Contractor, ET	and IEC
Contractor notiry ER, E1		ER notify Contractor, ET	
Contractor log complair	nt and date of receipt onto	o the complaint database. Co	ontractor, ER and ET to
	conduct investig	gation of complaint	
If complaint is considere	d not valid	If complaint is found valie	d
-		-	
ET or ER to reply the con	mplainant if necessary	Contractor to identify a	nd implement remedial
ET of Electo reply the col	inplainant it necessary	measures in consultation	-
			with the IEC, ET and
		ER.	
		The ER, ET and IEC to	review the effectiveness
		of the Contractor's reme	edial measures and the
		updated situation; ET t	to undertake additional
		monitoring and audit to	verify the situation if
		necessary, and oversee the	at circumstances leading
		to the complaint do not	t recur. ER to conduct
		further inspection as nece	ssary.
If the complaint is refer	red by the EPD, the Con	tractor to prepare interim re	port on the status of the
_	-	ipulated above, including the	-
	-	or already taken, for submiss	
incustres and addition	-	•	sion to Li D within the
		igned by the EPD	
·			
The ET to record the deta	ails of the complaint, res	ults of the investigation, sub	osequent actions taken to
address the complaint a	and updated situation inc	luding the effectiveness of t	he remedial measures,
supported by reg	ular and additional moni	toring results in the monthly	y EM&A reports

#### Table 4.1 Environmental Complaint Handling Procedure

- 4.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in Appendix D and Appendix E shall be carried out.
- 4.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded during the reporting month.
- 4.4. No complaint and non-compliance were received in the reporting month.
- 4.5. No notification of summons and successful prosecution was received in the reporting period.
- 4.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix M.

#### 5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 7, 14, 21 and 28 July 2021, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 7 and 21 July 2021.
- 5.2. One joint site inspection with IEC also undertaken on 14 July 2021. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Date	Environmental Observations	Follow-up Status
7 11., 2021	1. NRMM label was found with invalid color	1. NRMM label was replaced.
7 July 2021	on an excavator at Portion 2B.	
14 July 2021	1. NRMM label was missing on an excavator	1. NRMM label was provided.
14 July 2021	at Portion 1A.	
21 July 2021	NA	NA
28 1.1. 2021	1. General refuse was found without proper	1. Waste skip was covered.
28 July 2021	storage at Portion 1A.	

Table 5.1 Site Observations

- 5.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.
- 5.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents had been implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in Appendix F.

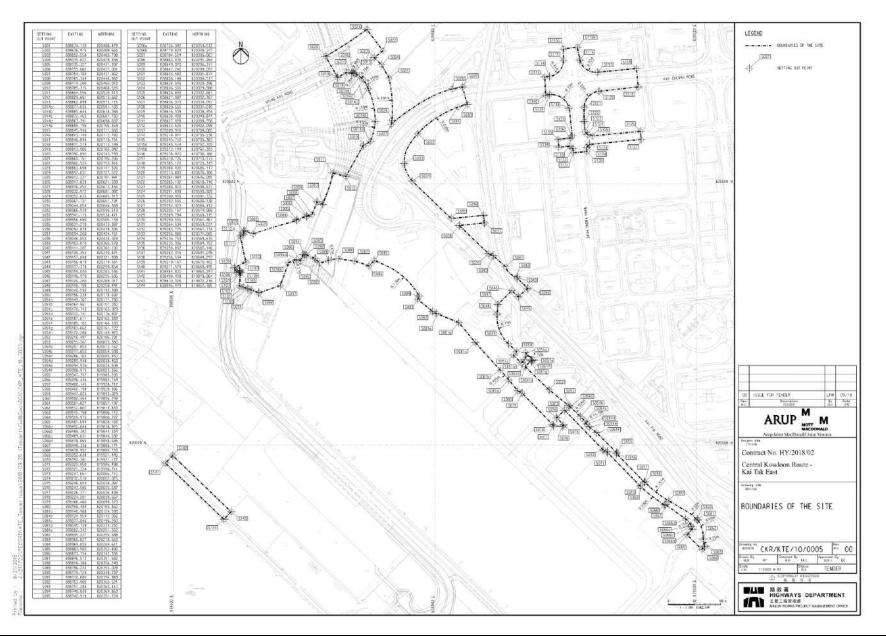
#### 6. **FUTURE KEY ISSUES**

- 6.1. The construction activities provided by Contractor in the next reporting month are:
  - Bored Pile at Portion 2B, 3B & Kai Cheung U Turn.
  - Pile Cap Construction at Kai Cheung Loop Road & Portion 2B
  - Excavation Works for Adit at Area Part 1B.
  - Excavation Works for Underpass at Portion 3B.
  - Construction of Temporary Platform at Kai Tak Nallah
  - Retaining Wall Construction at Portion 2B
  - Sheet piling Work at Area Part 1A.
  - Central Divider Removal at Kai Fuk Road.
- 6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 6.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix N.
- 6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

#### 7. CONCLUSION AND RECOMMENDATIONS

- 7.1. This 23<sup>rd</sup> monthly EM&A Report presents the EM&A works undertaken during the period from 1 July 2021 to 31 July 2021 in accordance with the EM&A Manual and the requirement under EP-457/2013/C and EP-457/2013/D.
- 7.2. Air quality (including 1-hour TSP and 24-hour TSP) was carried out in the reporting period. No exceedance of the Action and Limit Level was recorded for air quality impact monitoring during the reporting month.
- 7.3. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. Joint site inspection with IEC were carried out on 14 July 2021. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 7.4. No complaint and non-compliance situation were received in the reporting month.
- 7.5. No notification of summons or prosecution was received since commencement of the Contract.
- 7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

# Appendix A Alignment and Works Area for the Contract No. HY/2018/02



# Appendix B Construction Programme

ata Date: 25-Jul-21 rint Date: 04-Aug-2				Centr	Cont e Kow			18/02 (ai Tak East						Sichmex - Paul Y	Joint Venture
ay iD	Aching Name       Crg Dx       Soft       1         ral Kowloom       Route - Kai Tak East (Month 27 Update) (Re       Cr2 2       26-60-20.4       30         LIMINARIES AND GENERAL REQUIREMENTS       145       26-60-20.4       30         LIMINARIES AND GENERAL REQUIREMENTS       145       26-60-20.4       30         LIMINARIES AND GENERAL REQUIREMENTS       145       30-40-21.4       30         Choice       0       30-40-21.4       30         Choice       0       30-40-21.4       30         Choice of the Works       0       30-40-21.4       30         10       Sector Sector 10 (Sector 10, Sector	Finish	Line Star	Late Finish	Total Float	TRA (Dey)	30ly 27		August 28	Septem 29	ler	030	*	November 31	
Central Kowl	loon Route - Kai Tak East (Month 27 Update) (Re	623 28-Feb-20 A	30-Apr-22	05-0d-20	01-Feb-25	1107	793.00	04 11 18 2	5 Q1	08 15 22	29 05 12	19 26	03 10	17 24 31	07 14 21
PRELIMINA	RIES AND GENERAL REQUIREMENTS	145 30-Ap+21.A	11-1009-27	01-May 22	05 Mar 25	969	11.640								
Salient Key I	Dates and Milestones						0.00								
Key Dates		0 30-Abi-21 A	30-A0-21 A	01-Mar-22	05-Mar-25		0.00								
Sections of th	he Works	0 30-Apr-21 A	30 Apr21 A	01-Mar-22	05-Mar-25		0.00								
KD-10	KD10 - Section 10: Completion of portion of KFR Footbridge within Part 3F	0	30-Apr-21 A		05-Mar-25										
KD-03	and Opening for Pedestrians (646d) EOT 93d KD03 - Section 3: Comprises all the wks in Part 2C except Establishment Works	0	30-Apr-21 A		01-Mar-22										
Independent			25-3-1-31	15-5-6-22	05-54p-32	407	0.00							1	
Safety Aduit		0 25-3421	25-34-21	05-5ap-22	05.540.22	407	0.00								
\$4-1110	Sth Safety Audit at 6 months intervals	0 25-64-21		05-Sep-22		407									
Utilities Scho	edule (MSD/DSD/CLD/TG/DCON/HKR/ATC/KTTur	145 10400011.0	titelabored ti	10-560-72	-0404037	2003	0.00								
				10-Sep-22	30-Dec-22	333	0.02								
UU-1110			AL DOT LL	10-500-22	- Product		0.00								
UU-1042		10 100 000000		10-5ep-22	-	333	_								
UU-1044	and the second			04-Nov-22		333									
181-1046				30-Dan-22		333		- Junipus -						un al anti-	
							2.565								
							0.00								
					20-304-22		0.00								
	ign for Bridge S2, S7 & S8 - Piers & Deck				20-34-22		0.00								
Bridge S2				21-36-21	21-34-21		0.00								
DE5-0178	CSD-B(S2 Piers & Deck) Consent to start the works		25-May-21 A		21-34-21										
Bridge S7		0 25-May-21 A	25-May-21 A	24-34-21	24-3:4-21		0.00	1.1							
DES-0184	CSDH8(S7 Piers & Deck) Consent to start the works	0	25-May-21 A		24-3:4-21										
Bridge S8		0 25-May-21 A	25-May-21 A	20-3ul-22	20-3.4-22		0.00								
DES-0190	CSD-B(S8 Piers & Debl.) Consent to start the works	0	25-May-21 A		20:3422										
CSD-F for Four	undation of Ring Road Underpass & Ventilation Adit	403 28-Feb-20 A	29-30-21	01-Aug-22	04-Aug-22	298	0.00								
Detailed Desi	ign for Foundation of Ring Road Underpass & Ventilation Adit	403 28-Feb-20 A	29-Jul-21	01-Aug-22	04-Aug-22	296	0.00								
DES-0198	CSD-F Submit to PM & all relevant parties for review and approval	51 28-Reb-20 A	29-Jul-23	01-Aug-22	04-Aug-22	298	-								
DES-0200	CSD-F Consent to start the works	0	29-Jul-21		04-Aug-22	298			•						
CSD-G for Brid	dges across Kal Tak River (3 spans to 2 Spans)	0 25-May-21 A	25-May-21 A	03-Nov-20	03-0d-22		0.00								
Detailed Desi	ign for Bridge S1, S3, S4, CKRE & CKRW - Piers & Deck	0 25-May-21 A	25-May-21 A	03-Nov-20	03-0d-22		0.00								
Bridge S3		0 25-May-21 A	25-May 21 A	03-0ct-22	03-Oct-22		0.00								
DES-0238	CSD-G(S3 Piers & Deck) Consent to start the works	0	25-May-21 A		03-0d-22										
Bridge S4		0 25-May-21 A	25-MBY-21 A	03-Nov-20	03-Nov-20		0.00								
Cameral Ma	Mastern								Project	D: KTE-WP21 M27			Data	Beveicn	Checked Ap
Adusl Wo	ork Central Ko	owloon Route Thr			t (Monti ing Prog			v21 - CSD)	Baselin Layout	e: KTE - 3 Months Rolling 'ASK filters: 3 Months R	Programme ciling_1, KTE - Submiss	ion.	30.4pr-21 M 20.Nay/21 3u 31.Nay/21 M 21.4m-21 5u 30.4m-21 M	tent CSD Programme Rev 18 anthy Programme M24 brint CSD Programme M24 anthy Programme M25 brint CSD Programme M25 anthy Programme M25 brint CSD Programme M24	11Y 00 11Y 00 11Y 00 11Y 00 11Y 00 11Y 00 11Y 00

ID	Activity Name	Orig Dur	Şat	Firish	Late Start	Late Fisish	Float	(Dey)	14 1 12	August 28		28			36	t.	31	
DES-0244	CSD-G(S4 Piers & Deck) Consent to start the works	0		25-May-21 A	-	03-Nov-20	- ALAR	- trende	18 25	01 08 1	72 29	05 12	19 26	1 03 1	0 17 34	31 0	14	21
Bridge CKRE	& CKRW	0	25-May-21 A	25-May-21 A	08-Jun-21	08-Jun-21		0.00										
OE5-0250	CSD-G(CXRE & CKRW Pless & Dedk) Consent to start the works	0		25-May 21 A		08-Jun-21												
Temporany V	Vorks Design & Engineering	195	26-Apr21 A	17-Dec-11	05-16-21	20-3in-22	142	0.00										
	ary Works for Bridges	108	26-36-21	01-Dec-21	09-148-21	20-Jun-22	156	0.00										
areas resultants	amp working platform for Bridge S1/S9 over Kai Fuk Road		26-34-21	21:500-21	12-3.421	0756021	-12	0.00										
DES-1320	DES - ICE checking and approval		26-36+21	24-Aug-21	12-34-21	10-Aug-21	-12	0.00										
				100000		0.00							-					
DES-1322	DES - Project Manager checking and approval; consent to start the Postal works		25-Aug-21	21-Sep-21	11-Aug-21	07-Sep-21	-12				1.1							
	emp working platform for Bridge S7 over Kai Cheung Slip Roa		26-3:1-21	03-Nov-21	09-Mor-21	24-5ep-21	-32	0.00										
DES-1324	DES - Prepare prefiminary proposal submission	36	26-34-21	04-Sep-21	09-Mar-21	23-Apr-21	-111											
DE5-1326	DES - ICE checking and approval	24	05.5ep-21	05-0d-21	30-34-21	26-Aug-21	-32					-						
DES-1328	DES - Project Nanager checking and approval; consent to start the Postal works	24	06-Od-21	03-Nov-21	27-Aug-21	24-Sep-21	-32							-	_			
DES_T06 - Te	emp working platform for Bridge S2 & S8 over KF Rd & KC Rd	84	26-301-21	03-Nov-21	09-Mar-21	29-Apr-22	139	0.00										
DES-1330	DES - Prepare preliminary proposal submission	36	26-34-21	04-Sep-21	09-Mar-21	23-Apr-21	-111		_	-								
DES-1332	DES - ICE checking and approval	24	06-Sep-21	05-0d-21	01-Mar-22	28-Mar-22	139					-						
DES-1334	DES - Project Nanager checking and approval; consent to start the Portal	24	06-0d-21	03-Nov-2.1	29-Mar-22	29-Apr-22	139		11					-				
DES_TIG - EL	S Design for Bridge S7 - 78-S7 to 70-S7	65	06.5ep 21	23-Nov-21	24-Apr-21	13-34-21	-111	0.00										
DES-1372	DES - Prepare preliminary proposal submission	36	06-Sep-21	20-0d-21	24-Apr-21	07-Jun-21	-111					-			-			
DE5-1374	DES - ICE checking and approval	5	21-0:0-21	26-0d-21	08-Jun-21	12-Jun-21	-111								-			
DES-1376	DES - Project Manager checking and approval; consent to start the ELS works	24	27-0 <del>0</del> -21	23-Nov-21	15-Jun-21	13-34-21	-111	_									_	
DES 117. E	S Design for Bridge S8 - 8A-S8 to 8D-S8	72	06-Sep-21	01-Dec-21	21-Mar-22	20-Jun-22	156	0.00										
DE5-1378	DES - Prepare preliminary proposal submission		065ep/21	20-Oct-21	21-Mar-22	06-May-22	156					_		1	-			
DES-1370	DES - ICE checking and approval		21-0:0-21	03-Nov-21	07-May-22	21-May-22	156											
1.	1,575,025,065,05,05,00,000			00,020,000	06030506550	Collisiones												
DES-1382	DES - Project Manager dhedding and approval; consent to start the ELS works		04-Nov-21	01-Dec-21	23-Məy-22	20-3un-22	156										1	
- and the second second	ary Works for Underpasses, Adit and Roads		065ep-21	17-Dec21	26-Apr-21	25-Nov-21	-19	0.00										
DES_T08 - Te	emp works for construction of Sign Gantries, Lighting Poles &	96	06-Sep-21	17-Dec-21	14-Aug-21	25-Nov-21	-19	0.00										
DES-1390	DES - Propare preliminary proposal submission	36	05-Sep-21	20-Oct-21	14-Aug-21	25-Sep-21	-19						_	_				
DES-1392	DES - ICE checking and approval	26	21-0d-21	19-Nov-21	27-Sep-21	28-Oct-21	-19								_		_	
DES-1394	DES - Project Manager checking and approval; consent to start the works	24	20-Nov-21	17-Dec-21	29-Oct-21	25-Nov-21	-19										-	_
DES_TIO - Te	emporary works for Traffic Deck over Underpass S3	84	055ep21	15-Dec-21	26-Apr-21	05-Aug-21	-110	0.00										
DES-1402	DES - Prepare preliminary proposal submission (ELS for Box Section and Ramps)	36	06-Sep-21	20-Oct-21	26-Apr-21	08-3un-21	-110											
DES-1404	DES - ICE driedding and approval	24	21-04-21	17-Nov-21	05-Jun-21	08-34-21	-110	-							-		_	
DES-1406	DES - Project Manager checking and approval; consent to start Underpase S3	24	18 Nov 21	15-Dec 21	09-34-21	05-Aug-21	-110											
DES - Tempora	ary works for Kai Fuk Road Footbridge	38	26-Apr-21 A	10-Jun-21 A	22-Apr-21	22-Apr-21	-	0.00										
and the second second	S Design for Demolition of Subway KS20	36	26-Apr-21 A	10-3an-21 A	22-Apr-21	22-Apr-21		0.00								8		
DES-1446	DES - ICE checking and approval			27-May-21 A		22-Apr-21												
DES-1448	DES - Project Manager checking and approval; consent to start the works at			10-Jun-21 A		22-Apr-21		_										
no porton est	Existing Subway			30-Apr-22			1107	2012.02										
ONSTRUCT	ION	1000	and and a second	an object	Conserve a	Contraction of	Sec. 1	- Sound					1					
Current Mile	lettore									Project ID: KTE-W	201 1072			Duto		kvition	Chool	
Adual Wor	Central K	owloo	n Rout	e - Kai	Tak Eas	t (Mont	1 27	Updat	SD)	Baseline:				20-Apr-21 30-Apr-21	Submit CSD Program Monitrly Programme 1	V24	TW	DX DX
Catical Rem Remaining	narang Wask			ree Mon						Layout KTE - 3 Mc	nthis Rolling Progra			23-May-21 31-May-21	Submit CSD Program Monthly Programme 1	me Rev 19	TW	0
	THE .		20,00				10000	2017		Filter: TASK filters:	3 Months Rolling_1	, KIE - Submissi	DRI,	21-Jun-21 30-Jun-21	Submit CSD Program	ma Ray 20	TW	D
										Page 2 of 18				30-Jun-21 20-Jul-21	Submit GSD Programme	120	TYY	100

>	Activity Name	Orig Dur	Sat	Firish	Late Stat	Lote Finish	Totat Float	(Dey)	16 35	61	28 08 15	121	9   05	29 12 19	1 26 1	63 1 1	30 0 17	24 31	31 07	4	-
jor Tempo	orary Traffic Management Scheme	1 12	23-Aug-21	18-Nov-21	31-Aug-21	31-00921	65	1.00													
TM Scheme fi	or Kai Fuk Road	72	23-Aug-21	18-Nov-21	31-Aug-21	31.Aug-21	-65	0.00													
KFR-TTA-1	TTA - Kai Puk Road - Stage 1	0	23-Aug-21		31-Aug-21		7		STI-C N												
KFR-TTA-1.1	TTA - Kai Fuk Road - Stage 1.1	0	18-Nov-21		31-Aug-21		65													•	
ection 1 - A	II the Works of the Site, except Section 2 to 17	314	24 Mar 21 A	21/100/22	05-04;20	01 646-25	1136	543.00													
Sch_1 Prelimin	naries Works	222	12-Apr-21 A	21-Jan-22	03-Nov-20	27-Apr-21	-221	117.00													
Site Establish	ment Works	222	12-Apr-21 A	21-Jan-22	03-Nov-20	27-Apr-21	-221	117.00										-			
Temporary st	teel platform over Kai Tak River	222	12-Apr-21 A	21-Jan-22	03-Nov-20	27-Apr-21	-221	117.00	(41)												
DM Soge 1			Jillion Ji	Jil-Han-J.S	341-1040-21	1740-21		8.UO										ł			
1-2036	SE(Stage 1) - Install F3 concrete block and decking for Portion 1 (S1)	48	24-Nov-21	21-Jan-22	26-Feb-21	27-Apr-21	-221	6.00										1			
DIA State 22		1	L-ma-LLA	11-6-0-1	048-20	(Inserval)		15.00													
1-2324	SE(Stage 2a) - Coring & Temporary pre-grouting for 15-51 (1 m)	48	12-Apr-21 A	13-3.4-21 A	03-Nov-20	03-Nov-20		6.00										8			
1-2324A	SE(Slage 2a) - Rebar insallation; for slab reinstatment at 1E-S1		14-Jui-21 A	24-30-21 A		03-Nov-20		3.00	11 m												
1-2058	SE(Stage 2a) - bitract existing sheetple within pile 1E-S1		24-Jul-21 A		03-Nov-20	10-Nov-20	-210	3.00													
1-2058A	SE(Stage 2a) - Extract exating sheatple within pile 1E-SL SE(Stage 2a) - outercasing installation for 1E-S1					100.000.000	-210	3.00													
	studente zen - Outercasing installation for 12-51		03-Aug-21	11-Aug-21	11-Nov-20	19-Nov-20	-210	3.00													
OIA Stage 2			TEMM-21A		domain of	11 June 21		30.00													
1-2046	SE(Stage 2) - Coring & Temporary pre-grouting for 3E-53 (1 nr)		17-May-21 A		09-Nov-20	09 Nov 20	-204						-								
1-2048	SE(Stage 2) - Coring & Temporary pre-grouting for DKRE-KS (2 nns)	74	18-Jun-21 A	06-Sep-21	09-Nov-20	21-Dec-20	-205	9.00		_											
1-2046A	SE(Stage 2) - Rebar installation; for slab reinstatment at 3E-S3	<u>9</u>	26-34-21	04-Aug-21	10-Nov-20	19-Nov-20	-204	3.00					1								
1-2060	SE(Stage 2) - Extract existing sheetpile within pile 3E-51	15	05-Aug-21	21-Aug-21	20-Nov-20	07-Dec-20	-204	3.00			_										
1-2060A	SE(Stage 2) - outercasing installation for 3E-53	6	23-Aug-21	28-Aug-21	08-Dec-20	14-Dec:20	-204	3.00				-						1			
1-2048A	SE(Stage 2) - Rebar Installation; for slab reinstatment at OKRE+KS	9	07-Sep-21	16-Sep-21	22-Dec-20	04-3an-21	-205	3.00					-					1			
1-2048B	SE(Stage 2) - outercasing installation for CIRE-K5	6	17-Sep-21	24-Sep-21	05-Jan-21	11-Jan-21	-205	3.00						-	•						
DM Stegn 4		12	78-10-11A	26-5xt.21	15-14m-20	22745w23	-175	57.00										1			
1-2320	SE(Stage 4) - Temporary steel platform & Coffentiam FLC for S4-4K-B piles	21	26-Apr-21 A	22-May-21 A	15-Jan-21	15-3an-21		6.00													
1-2054	SE(Stage 4) - Temporary steel platform & Cofferdiam FLB(3) for CKRN+KS	21	04-May-21 A	11-May-21 A	19-10-20	19-Nov-20		6.00										1			
1-2326	SE(Stage 4) - Coring & Temporary pre-grouting for 4K-S4-A (2 nrs)	72	25-May-21 A	18-Aug-21	19-Dec-20	15-1an-21	-170	9.00	_	_	_										
1-2325	SE(Stage 4) - Coring & Temporary pre-grouting for DGRW-KS (2 nr)	60	10-3un-21 A	65-Oct-21	19-Nov-20	30-Jan-21	-196	9.00			_		-								
1-2327	SE(Stage 4) - Coring & Temporary pre-grouting for 4K-54-8 (2 nrs)	66	03-Jui-21 A	28-Aug-21	15-Jan-21	25-Peb-21	-150	9.00	_	_	_	-						1			
1-2326A	SE(Stage 2) - Rebar installation; for slab reinstatment at 4K-54-A	10	19-Aug-21	30-Aug-21	16-Jan-21	27-Jan-21	-170	3.00													
1-2327A	SE(Stage 2) - Robar installation; for slab reinstalment at 4K-54-B		30-Aug-21	07-Sep-21	26-Feb-21	06-Mar-21	-150	3.00													
1-23268	SE(Stage 2) - outercasing installation for 4K-SH-A		31-Aug-21	07-Sep-21	28-Jan-21	04 Feb-21	-170	3.00					-								
1-2327B	SE(Stage 2) - outercasing installation for 4K-S4-B		095ep-21	24-Sep-21	(6-Mar-21	23-Mar-21	-150	3.00					-		-				1		
1-2325A	SE(Stage 2) - Rebar Installation: for slab reinstatment at OKRW-KS		06-04-21	15-04-21	01-Feb-21	09-Feb-21	-196	3.00										1			
1-2325B	SE(Stage 2) - outercasing installation for CRRWKS	9		26-Oct-21	10-Feb-21	26-Feb 21	-196	3.00									_				
DIA Store 5			10-01-01	251201	200 based	1 August	22.0														
1-2333	SE(Stage 5) - 2021/2022 - Dry season start (1 Od 2021)		02-0cr-21*	Section 6	29-Jan-21	and a second sec	-195	3.00										1			
1-2333	St(Stage 5) - 2023/2022 - Uny season start (1 Ot 2021) SE(Stage 5) - Remove cofferdiam for LD; erect F3 platform (1 nos)		02-00-21* 03-Nev-21	23-Nov-21	29-Jan-21 29-Jan-21	25-Feb-21	-190	3.00				1.	_						-	-	
		10	00100921	2510//21	1318663	Lindra	1352			1	1	f f,	1		h i	Data		Revision		Check	
Caneri Mi     Adusi Wor     Otcol Ren     Remaining	Central P	Cowloc				it (Mont ing Prog			SD)	Baselin Layout	KTE - 3 Mont ASK filters: 3	1_M27 hs Rolling Pro Months Rolling		ubmission.		20-Apr-21 30-Apr-21 20-May/21 31-May/21 21-Jun-21 30-Jun-21 20-Jun-21 20-Jun-21	Monthly Progra Submit CSD P Monthly Progra Submit CSD P Monthly Progra	rogramma Rav 13 mme M24 rogramme Rav 13 mme M25 rogramme Rav 23		TW TW TW TW TW TW TW	

	Activity Name	Orig Dur	Sat	Firish	Late Star	Lote Finish	Total Float	(Day)	27 04 11 18	25 01	08	28	2 29	0 05	29	19	28	63	30	17	2	1 0	31	1 11	-
1-2334	SE(Stage 5) - Install F3 concrete block and decking for Porti (SL/S3/CRRE)	m 2 48	24410/21	21-Jan-22	26-Feb-21	27-Apr-21	-221	6.00		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -			1												1
h_2 Ground	d Investigation	42	29-Apr-21 A	24-3an-21 A	19-Nov-20	15-Jan-21		8.00																	
4 - Pre-drilli	ing	42	29-Apr-21 A	15-Jun-21 A	19-Dec-20	15-Jan-21		4.00					-	202											
2156	54 - Pre-drilling over Kai Tak River for 4K-S4-A (2 nn)	12	29-Apr-21 A	A 15 yet-80	19-Dec-20	19-Dec-20		2.00																	
2-2154	54 - Pre-difling over Kal Tak River for 4K-54-8 (2 nrs)	12	25-May-21 A	15-Jun-21 A	15 Jan 21	15-Jan-21		2.00																	
CKRW - Pre-c	drilling	12	10-3cm-21 A	24-Jun-21 A	19-Nov-20	19-Nov-20		4.00													1				
2-2222	CKRW - Pre-difling over Kai Tak River K5-CKRW-1 (1 m)	6	10-Jun-21 A	17-Jun-21 A	19-Nov-20	19-Nov-20		2.00													1				
2-2220	CNRW - Pre-diffing over Kai Tak River K5-CKRW-2 (1 m)	<u>)6</u>	18-3un-21 A	24-3un-21 A	19-Nov-20	19-Nov-20		2.00																	
ch_3.1 Bridg	je S1 Works	153	25-May-21 A	24-Nov-21	20-0:1-20	10-May-21	-164	20.00					-												
S1 - Piling We	orks	135	05-Jun-21 A	03-Nov-21	20-0d-20	11-Mar-21	-192	8.00																	
Piling Works	- Pier P-1E-S1	69	12-Aug-21	03-Nov-21	20-Nov-20	11-Mar-21	-192	4.00					Ē												
3.1-2304	51 - Bored Piles for 1E-51-1 (1 nr)	45	12 Aug 21	05-0c-21	20-Nov-20	14Jan 21	-210	4.00			-	_	-		-			÷.							
3.1-2306	S1 + 15-S1 Proof drilling & Plies testing	24	06-Od-21	03-Nov-21	05-Feb-21	11-Mar-21	-192	0.00										-	_	_	-				
Piling Works	- Pler P-1D-51/59-A	88	05-3un-21 A	06-Sep-21	20-0:0-20	24-Dec-20	-202	4.00																	
3.1-2312	51 + Bored Piles for 1D-51/59-1 (1 m)	36	05-3un-21 A	09-Aug-21	20-Oct-20	04-Nov-20	-221	4.00	in directional area		11										-				
3.1-2314	S1 - 1D-51/59-1 Proof driling & Piestesting		10-Aug-21	06-Sep-21	27-Nov-20	24-Dec-20	-202	0.00					1.								1				
	s, Pier / Abutment			24-Nov-21	12-Mar-21	10-May-21	-164	12.00					1								Ť				
Abutment 1A			25-May-21 A	02-5ep-21	25-Mar-21	10-May-21	-96	10.00					-												
3.1-2122	51 - Excavation Down to Formation Level A-1A-51		25-May-21 A			25-Mar-21		2.00													1				
3.1-2324	S1 - Prepare Pile Head (3 ns) A-1A-51			12-3ui-21 A		25-Mar-21		1.00						1											
3.1-2326	S1 - Construct Abutment Base A-1A-S1		12-Jul-21 A	26-Jul-21	25-Mar-21	25-Mar-21	-96	3.00					1												
	51 - Construct Abutment A-1A-51							3.00					ţ.	1							清				
3.1-2328			26-34-21	21-Aug-21	26-Mar-21	27-Apr-21	-96	-																	
3.1-2330	S1 - A-1A-S1. Install Permeate Membrane and Backfill		23-Aug-21	02-Sep-21	28-Apr-21	10-May-21	-96	1.00																	
Pier 1E-S1			04-Nov-21	24-Nov-21	12-Mar-21	01-Apr-21	-192	2.00																	
3.1-2332	51 - Prepare Pile Head for 1E-51	10	04-Nov-21	09-Nov-21	12-Mar-21	17-Mar-21	-192	1.00					÷									-			
3.1-2336	S1+1E-S1 Rainstationent of Siab of Kal Tak River		10-Nov-21	24-Nov-21	18-Mar-21	01-Apr-21	-192	1.00																	
ch_3.2 Bridg	ge S2 Works	172	15-May-21 A	16-Dec-21	28-May-21	24-Jun-22	147	53.00																	
52 - Piling We	orks	89	15-May-21 A	23-Aug-21	28-May-21	12-Mar-22	161	8.00																	
Piling Works	- ABUT A-2A	24	26-34-21	21-Aug-21	27-Aug-21	245qp-21	28	0.00					÷.								1				
3.2-2502	S2 - 2A Proof drilling & Piles testing	24	26-3:4-21	21-Aug-21	27-Aug-21	24-Sep-21	28	0.00				_													
Piling Works	- Pier P-28	24	26-34-21	21-Aug-21	24-Aug-21	20-Sep-21	Z	0.00						8											
3.2-2506	52 - 28 Proof drilling & Piles testing	24	26-34-21	21-Aug-21	24 Aug-21	20-Sep-21	25	0.00				-	1												
Piling Works	- Pier P-2C	24	26-34-21	21-Aug-21	13-00-21	10-Nov-21	66	0.00																	
3.2-2510	S2 - 2C Proof drilling & Pikes testing	24	26-344-21	21-Aug-21	13-00-21	10-Nov-21	66	0.00																	
Piling Works	- Pier P-2D	24	26-34-21	21-Aug-21	14-Feb-22	12-Mar-22	162	0.00					-												
3.2-2514	52 - 2D Proof difling & Piles testing	24	26-34-21	21-Aug-21	14-Feb-22	12 Mar-22	162	0.00					Ĩ.												
Piling Works	- Pier P-2E	75	15-May-21 A	21-Aug-21	28-May-21	25-Jun-21	-48	5.00																	
3.2-2516	52 - Bored Piles for 2ER (1 nr)	76	15-May-21 A	06-JUI-21 A	28-Məy-21	28 May-21		5.00	-																
								1	to Lint die ide I		1							1 Def	to I		Beview		1	Checked	Ē
Coment Mi		ontrol Kowley	n Poute	- Kai 1	Tak Eco	t (Month	. 27 -	Inde	e) (Rev21 - CSD)	Proje Base		WP21_M2	17					20-Ap-2 30-Ap-2	n Sul	mit CSD Pro thly Program	gramme Re			YY .	
Citical Rev	maining Wark	entral Nowioo				ing Proc			e) (Rev21 - CSD)	Layo	ut KTE - 3	Months R						20-May 2	21 Sul	and CSD Prop	gramme Ro	v 19	T	ΥY	DX.
- Remaining	a Weak		( nr	SC MOU	un Rom	ing Prog	grattil	16				ers: 3 Mont			Submissio	n.		31-Mays 21-Jun-2	1 94	th/Program and CSD Pro	gramme Re	v 29		W.	DC CX
										1400	4 of 18							30-Jun-Z		dhy Piogram	rne M26 comme Re		2	W.	10X

>	Activity Name	Orig Dur Stat	Firish	Late Stat	Late Finish	Totat Float	TRA (Dely		August 28 25 01 08 15 22 20	September 29 05 12 10	36 0 0	30 10 17 54 54 1	31 07 12 4	11 1
3.2-2518	52 - 2E Proof drilling & Piles testing	24 26-X#21	21-Aug-21	28-May-21	25-Jun-21	48	0.00		ca vi vi vi zz. 28	W 12 18	211 103		yr 19 2	
Piling Works -	- Pier P+2F	51 12-3un-21 A	23-Aug-21	18-3.6-21	20-Aug-21	2	3.00							
3.2-2520-3	52 - Bored Piles for 2F-3 (Telescopic Casing Method)	60 12-Jun-21 A	26-Jui-21	18-3.4-21	19-Jul-21	-7	1.00	-						
3.2-2522	52 - 2F Proof delling & Piles testing	24 27-34-21	23-Aug-21	24-3.4-21	20-Aug-21	-2	0.00							
S2 - Pile Caps	, Pier / Abutment	148 07-Jun-21 A	16-Dec 21	26-Jun-21	24-3un-22	147	45.00							
Pier 2A		24 30-0#21	26-Nov-21	25-Sep-21	25-0d-21	-28	2.00							
3.2-2532	S2 - Install sheetpile for pile cap 2A	5 30-00-21	04-Nov-21	25-Sep-21	30-Sep-21	-28	1.00							
3.2-2534	52 - Exavation down to formation level C-2A	10 05/10/21	16-Nov-21	02-Oct-21	13Ot-21	-28	0.00							
3.2-2536	S2 - Prepare pile head (2 nrs) 2A	9 17-Nov-21	26-Nov-21	15-0d-21	25-0d-21	-78	1.00							
Pier 2B		27 30-0a-21	30-Nov-21	21-Sep-21	25-04-21	-31	4.00							
3.2-2542	52 - Install sheetpile for pile cap 2B	6 30-Oct-21	05-Nov-21	21-Sep-21	28-5ep-21	-31	1.00					-		
3.2.2544	52 - Excavation down to formation level C-28	12 06/Nov-21	19-Nov-21	29-Sep-21	13 Oct 21	-31	2.00	· · · · · · · · · · · · · · · · · · ·					_	
3.2-2546	S2 - Prepare pile head (2 nm) C-28	9 20-1409-21	30-Nov-21	15-0d-21	25-00-21	-31	1.00							_
Pier 2CL/2CR		148 07-3un-21 A	16-Dec-21	11-Nov-21	14-Mar-22	66	15.00							
3.2-2552	52 · Install sheetple for pile cap 2CL/2CR	6 07-km-21 A		11-Nov-21	11-Nov21	~	1.00	+ + +						
3.2-2554	52 - Excevation down to formation level 20L/20R	11 23-Aug-21	03-5ep-21	11-Nov-21	23/Nov/21	66	2.00							
3.2-2556	S2 - Prepare pile head (4 nrs) C2CR& C2CL	17 04Sep21	24-Sep-21		13-Dec-21	66	1.00	-						
3.2-2558	S2 - Construct pile gap C-2CR			24-Nov-21		66	3.00				_			
		11 255ep-21	08-Oct-21	14-Dec-21	28-Dec-21		1222							
3.2-2560	S2 - Construct plie cap C-2CL	10 09-0#-21	21-Oct-21	21 Jan 22	08-Feb-22	85	2.00							
3.2-2562	S2 - Construct Pier P-2CR (3 Lifts)	29 .09-Od-21	12-Nov-21	29-Dec-21	08-Peb-22	66	3.00							
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)	29 134109-21	16-Dec-21	09-660-22	14-Mar-22	66	3.00							
Pier 2DL/2DR		34 22-00-21	30-Nov-21	14-Mar-22	26-Apr-22	113	4.00							
3.2-2566	S2 - Instal sheetpile for pile cop 2DU/2DR	6 22-0d-21	28-0d:-21	14-Mar-22	19-Mar-22	113	1.00							
3.2-2568	S2 - Exavation down to formation level 2DL/2DR	11 29-0d-21	10-Nov-21	21-Mar-22	01-Apr-22	113	2.00					Ender		
3.2-2570	52 - Prepare pile head (4 nrs) C-2DR & C-2DL	17 11-Nov-21	30-Nov-21	02-Apr-22	26-Apr-22	113	1.00						C	-
Pier 2EL/2ER		94 23-Aug-21	13-Dao 21	26-Jun-21	24-3un-72	150	13.00							
3.2-2580	52 - Install sheetpile for pile cap 2EL/2ER	7 23-Aug-21	30-Aug-21	26-Jun-21	05-3uH21	-48	1.00							
3.2-2582	S2 - Exavation down to formation level 2EL/2ER	13 31-Aug-21	14-Sep-21	06-3.4-21	20-3u4-21	-48	2.00			-				
3.2-2584	S2 - Prepare pile head (3 nrs) C2ER & C2EL	13 155ep21	30-Sep 21	21-34-21	04-Aug-21	-48	1.00			_	-			
3.2-2586	S2 - Construct pile cap C-2ER	12 02-0d-21	16-0d-21	05-Aug-21	18-Aug-21	-48	2.00				_			
3.2-2588	S2 - Construct pile cap C-2EL	12 18-0d-21	30-Oct-21	19-Aug-21	01-Sep-21	-48	2.00							
3.2-2590	52 - Construct Pier P-2ER (2 Lifts)	20 18-Oct-21	09-Nov-21	26-Apr-22	20-May-22	150	2.00							
3.2-2592	S2 - Construct Pier P-2EL (3 Lifts)	29 10-Nov-21	13-Dec-21	21-May-22	24-3un-22	150	3.00						-	_
Abutment 2F		58 15-Sep-21	24-Nov-21	21-Aug-21	30-00-21	-21	7.00							
3.2-2596	S2 - Excavation down to formation level A-2F	11 155ep21	28-Sep-21	21-Aug-21	02-5ep-21	-21	2.00							
3.2-2598	52 - Prepare pile head (3 nrs) A-2F	13 295ep21	15-0d-21	(0-Sep-21	17:Sep-21	-21	1.00					_		
3-2-2600	S2 - Construct Abutment Base A-2F	14 16-0d-21	01-Nov-21	18-Sep-21	06-0d-21	-21	2.00							375
3.2-2602	52 - Construct Abutment A-2F	20 02-Nov-21	24-Nov-21	07-0d-21	30-0¢-21	-21	2.00					-	_	•
Correct Mile	ostorno			-				•	Project ID: KTE-WP21_M27		Data	Bevisco	Checked	
Adual Won	k alang Wak	Central Kowloon Rout Th			t (Monti ng Prog			ate) (Rev21 - CSD)	Project ID: K1E-IM-21_M27 Baseline: Layout: KTE - 3 Months Rolling Programm Filter: TASK filters: 3 Months Rolling_1, K1 Page 5 of 18		20-4p+21 30-4p+21 20-May/21 31-May/21 21-Jun-21 30-Jun-21	Submit CSD Programme Rev 18 Monitry/Programme M24 Submit CSD Programme Rev 19 Monitry/Programme M25 Submit CSD Programme Rev 29 Monitry/Programme M25	700 700 700 700 700 700 700	000000

YID	Activity Name	Orig D	u Sat	Firish	Late Start	Lote Finish	Total Float	TRA (Dey)	3/ay 27 04 11 18	95 54 54	August 28	2 1 20 1	Septemb 29 05 1 10	er I is I	36 L 19	0ctober 30	7 24 1	31 1 47	November 31	94 T -
Sch_3.3 Bridg	je S3 Works	11	8 08-Jun-21 A	14-006-21	15-060-20	19-Nov-22	272	21.00			14		W 12	.07		10 1	e	SI W	14	-1 4
53 - Piling We	orks		6 26-34-21	17-Nov-21	15-Cec-20	30-Sep-22	254	4.00												
Piling Works	- Pier P-3E-53		0 05-5ep-21	17-Nov-21	15-Dec-20	30-Sep-22	254	4.00												
3.3-2804	53 - Bored Piles for 3E-53 (1 nr)	3	6 06-Sep-21	20-Od-21	15-Dec-20	28-Jan-21	-210	4.00					_					1		
3.3-2806	53 - 3E-53 Proof dilling & Pliestesting		4 21-04-21	17-Nov-21	02-Sep-22	30-5ep-22	254	0.00											-	
Piling Works	- ABUT A-3D-S3		4 26-34-21	21-Aug-21	11-Aug-22	07-5ep-22	307	0.00												
3.3-2814	S3 - ABUT A-3D-S3 Proof drilling & Piles testing		4 26-34-21	21-Aug-21	11-Aug-22	07-Sep-22	307	0.00												
53 - Pile Caps	s, Pier / Abutment	11	8 08-Jun-21 A	14-Dec-21	20-Apr-21	19-Nov-22	272	17.00												
Abutment 3A	-53	,	7 08-Jun-21 A	62-0d-21	20-Apr-21	19-Nou-22	335	10.00	ocerta wiews - to									1007		
3.3-2820	S3 - Excavation Down to Formation Level A-3A-53		2 08-Jun-21 A	22-Jun-21 A	20-Apr-21	20-Apr-21		2.00									1	1		
3.3-2822	53 - Prepare pile head (3 nrs) A-3A-53	1	3 23-Jun-21 A	03-Aug-21	10-Sep-22	20-Sep-22	333	1.00										1		
3.3-2824	53 - Construct. Abutment, Base A-3A-53		1 04-Aug-21	27-Aug-21	21-Sep-22	17-00-22	333	3.00		-	-									
3.3-2826	53 - Construct Abutment A-3A-53		9 28-Aug-21	18-Sep-21	18-0d-22	08-Nov-22	333	3.00					_							
3.3-2828	53 - A-3A-53 Install Permeate Membrane and Backf		0 20-Sep-21	02-Oct-21	09-Nov-22	19-Nov-22	333	1.00						-	-					
Pier 3E-S3			3 18-Nov-21	14-Dec-21	03-0d-22	29-0d-22	ZEA	7.00												
3.3-2830	53 - Prepare Pile Head for 3E-53		5 18-Nov-21	23-Nov-21	03-0d-22	08-Oct-22	254	1.00										Ē	1	-
1.3-2834	53 - 3E 53 Reinstatement of Sab of Kal Tak River		8 24-Nev 21	14-Cec-21	10-0#-22	29-04-22	254	6.00												-
Sch_3.4 Bridg			A 12-YeP+10 1		05-0d-20	14-Jun-22	125	50.00												
S4 - Piling We			9 22-Jun-21 A		05-Od-20	28-May-21	-181	12.00										I		
	• Pier P-4K-S4-A		6 28-0xt-21	06-Dec-21	05-Feb-21	25-Mar-21	-210	4.00												
3.4-3024	54 - Bored Piles for 4K-54 A-2 (1.nr)	-	i6 28-0d-21	08-Dec-21	05-Feb-21	25-Mar-21	-210	94.00											3 11	1
Piling Works	- Pler P-4K-S4-B		16 20-Nov-21	04-1an-22	24-Mar-21	10-May-21	-196	4.00												
3.4-3026	S4 - Bored Piles for 4K-S4-B-2 (1 nr)	1	6 20-Nev-21	04-Jan-22	24-Mar-21	10-May-21	-196	4.00												_
Piling Works	· Pier P-4E-S4		26-34-21	21-Aug-21	27-Feb-21	26 Mar 21	-119	0.00												
3.4-3034	S4 - 4E-S4 Proof drilling & Piles testing	1	4 26-34-21	21-Aug-21	27-Feb-21	26-Mar-21	-119	0.00	•		_	1						1		
Piling Works	- Pier P-4F-S4	3	4 23-Aug-21	18-Sep-21	27-149-21	28-Apr-21	-119	0.00												
3.4-3038	54 - 4F-54 Proof drilling & Pilosteding	1	4 23-Aug-21	18-Sep-21	27-Mar-21	28-Apr-21	-119	0.00			- E - E	-		•						
Piling Works	- Pier P-4G-54	1	4 26-346-21	21-Aug-21	05-Cid-20	82-Nov-20	-234	0.00												
3.4-3044	54 - 4G-54 Proof citiling & Ples testing		4 26-34-21	21-Aug-21	05-Oct-20	02-Nov-20	-234	0.00			-							+		
Piling Works	- Pier P-43-54		7 22-Jun-21 A	20-00-21	13-401-21	28-May-21	-119	4.00												
3.4-3042	54 - Bored Piles for 43:54 (1 nr)		6 22-Jun-21 A	10-Aug-21	13-Apr-21	28-Apr-21	-65	4.00	-											
3.4-3046	S4 - 43-S4 Proof delling & Piles testing		4 20.5ep-21	20-0d-21	29-Apr-21	28-May-21	-119	0.00						-		1				
	s, Pier / Abutment		7 01-May-21 A		03-Nov-20	14-Jun-22	139	39.00										100		
Pier 48-54-A			A 15-Min-21 A		14-May-21	26-Jun-21	-73	8.00									-			
3.4-3062	54 - Excavation Down to Formation Lavel 48-54-A		6 01-May-21 A			14 May 21		2.00												
3.4-3062	54 - Prepare Pile Heat (2nrs) for 48-54-A		9 15-Jun-21 A		14-May-21	14-May-21		1.00										1.00		
1.4-3066	S4 - Construct Pile Cap 48-54-A				14-May-21	04-3m-21	-73	3.00		1	i i									
3.4-3068	54 - Construct Pile Lap 40:54-4 54 - Construct Piler 48:54-A (2 Uits)		8 11-Aug-21 8 01-Sep-21	31-Aug-21 21-Sep-21	05-Jun-21	26:00-21	-/3	10000					_	2						
🛡 Carent Mi											KTE-WP21_M	27			20-Ap		Revis CSD Programme	Rev 18	Chec Twy	DC
Adual Wa	maning Wark	Central Kowlo		ie - Kai ree Mor					lev21 - CSD)		K filters: 3 Mon	olling Programm ins Rolling_1, KT		on.	30-Apr 20-Ma 31-Ma 21-Jun 30-Jun 20-Jun	y21 Submit y21 Month y21 Submit y21 Submit y21 Month	Programme M24 CSD Programme Programme M25 CSD Programme Programme M25 CSD Programme	5 Rev 19 5 1 Rev 20 6	71Y 71Y 71Y 71Y 71Y	8888

#### Contract No. HY/2018/02 Environmental Monitoring & Auditing

D	Activity Name	Orig Dur Sant	Firish	Late Star	Late Finish	Total Float	TRA (Dely)	27 27 1 54 1 15 1 56 1 56	84 1 35	28	30 1 05	29 12 10	8 0	30 10	1 34 1	11 J AT	31 1 12	94 T
Pier 48-S4-B		54 01-May-21 A	20-Sep-21	17-Nov-21	29-060-21	81	7.00		1 41 08	10. 22	20 00	14 08	211 103	10 17	6	u w	14	
3.4+3072	54 - Excavation Down to Pormation Lavel 48-54-8	A 15-yeM+10 8	14-Jun-21 A	17-Nov-21	17400-21		2.00											
3.4-3074	54 - Program Pile Head (2nns) for 48-54-8	9 15-Jun-21 A	13-Jui-21 A	17-Nov-21	17-Nov-21		1.00											
3.4-3076	S4 - Construct Pile Cap 48-S4-B	17 11-Aug-21	30-Aug-21	17-Nov-21	06-Dec-21	81	2.00											
3.4-3078	54 - Construct Pier 48:54-8 (2 Lifts)	18 31-Aug-21	20-Sep-21	07-Dec-21	29-Dec 21	.81	2.00											
Pier 4E-S4		14 13-0d-21	29-0d-21	31-00:21	17-Jan-22	65	0.00						******				<u></u>	
3.4-3107	S4 - Install sheet pile for pile cap 4E-S4	8 13-0d-21	22-0d-21	31-Dec-21	10-Jan-22	65												
3.4-3109	S4 - Exavation down to formation level	6 23-Od-21	29-0a-21	11-Jan-22	17-Jan-22	65												
Pier 4F-S4		72 205ep-21	15-Dac-21	15-Mar-22	14-3un-72	139	11.00											
3,4-3114	54 - 47-54 ELS	4 20-5ep-21	24-5ep-21	15-Mar-22	18-Mar-22	139	1.00					-			1			
3.4-3116	S4 - Excavation Down to Formation Level 4P-S4	11 25-Sep-21	68-Oct-21	19-Mar-22	31-Mar-22	139	2.00						1					
3.4-3118	54 - Prepare Pile Head (2ns) for 4F-54	10 09-00-21	21-00-21	01-Apr-22	13-Apr-22	139	2.00				1 1				1			
3.4-31.20	54 - Construct Plin Cap 4F-54	18 22-Od-21	11-Nov-21	14-Apr-22	10-May-22	139	3.00											
3.4-3122	S4 - Construct Pier 41"-54 (3 Lifts)	29 12-filov-21	15-Dec-21	11-May-22	14-Jun-22	139	3.00										-	
Pier 4G-S4	a parti e se sector (12 - 11 - 12 - 12 - 12 - 12 - 12 - 12	54 26-May-21 A	25-Aug-21	03-Nov-20	14-Mar-22	160	8.00											
3.4-3128	54 - Prepare Pile Heed (1 m) for 4G-54	6 26-May-21 A	01-hay-21 A	03-Nov-20	03-Nov-20		1.00				-							
3.4-3130	54 - Construct Pile Cap 4G-54	10 02-Jun-21 A			03 Nov 20		3.00											
3.4-3132	54 - Condruid Per 4G-54 (4 Lifts)	38 17-Jun-21 A	25-Aug-21	11-Mar-22	14-Mar-22	160	4.00			-								
Pier 43-54	SHI CONSIDE HIS HOSE (4 EIG)	14 04-06-21	20-00-21			43	4.00											
	54 - Instal sheet pile for pile (an 4)-54			12-Adg-21	27-Aug-21		4.00								1			
3.4-31.36	a presidente esta contra de la co	8 04-Oxt-21	12-Oct-21	12-Aug-21	20-Aug-21	43	4.00							1 Autor				
3.4-31.37	54 - Excevation down to formation level	6 13-Oct-21	20-Oct-21	21-Aug-21	27-Aug-21	-43												
ch_3.5 Bridge		55 17-06-21	10-Dec 21	30-Der-20	27-Rtb-21	-283	7.00											
\$7 - Piling Wor		55 17-0d-21	10-Dec-21	30-Dec-20	27-Feb-21	-283	7.00											
Piling Works -		55 17-00-21	10 Dec 21	30-Dec 20	27 Feb 21	283	7.00								11			
3.5-3400-1	57 - Bored Piles for 78-57-1 Part 1 (upto -74.0mPD) (CNCE-0045)	55 17-08-21	10-Dec-21	30-Dec-20	27-feb-21	-283	7.00								11.14		1	
ich_3.6 Bridge		216 04-Jun-21 A	21-Aug-21	07-Sep-22	09-Dec-22	214	6.00											
58 - Piling Wor	ils	24 26-34-21	21-Aug-21	07-Sep-22	07-0d-22	330	0.00											
Piling Works -	Pler P-8C	24 26-366-21	21-Aug-21	67-Sep-22	07-0d-22	330	0.00											
3.6-3608	S8 - 8C-58 Proof deling & Piles testing	24 26-Jul-21	21-Aug-21	07-Sep-22	07-Oct-22	330	0.00	<b>-</b>										
S8 - Pile Caps,	Pier / Abutment	23 04-Jun-21 A	24-3ui-21 A	08-Oct-22	09-Dec-22		6.00											
Pier 8C		16 04-Jun 21 A	24-34-21 A	08-Oct-22	08-Oct-22		4.00								-			
3.6-3626	S8 - Install sheetpile for plie cap C-BC	5 04-Jun-21 A	10-Jun-21 A	08-Oct-22	08-Od-22		1.00											
3.6-3628	S8 - Exavation down to formation level C-8C-58	11 11-Jun-21 A	15-Jui-21 A	08-Oct-22	08-0d-22		2.00											
3,6-3630	S8 - Prepare pile head (2nn) C-8C-S8	9 16-Jui-21 A	24-34-21 A	08-Oct-22	08-Oct-22		1.00								-			
Abutment 8D		16 15-Jun-21 A	243.621 A	09-Dec 22	09-Dec-22		2.00											
3.6-3636	S8 - Exavation down to formation level C-8D-S8	7 15-km-21 A	15-3ui-21 A	09-Dec-22	09-Dec-22		1.00											
3.6-3638	S8 - Prepare pile head (3nns) C-8D-S8	13 16-Jui-21 A	24-3ui-21 A	(9-Dec-22	09-Dec-22		1.00											
ch_3.7 Bridge	S9 Works	168 25-May-21 A	11:0ec-71	09-Oct-20	13 May 71	-176	44.00											
-										- 0 - 0,								_
Cameril Miles						L 07	10.02	VP01 000		TE-WP21_M27			20-Ac		Revisi SD Programma P		Chucks TYY	DC
Oficel Remo	ining Wark							) (Rev21 - CSD)	Baseline: Layout KTE	- 3 Months Rolling Pr	ogramme		30.44 20.44	y21 Submit (	Programme M24 ISO Programme F	lev 19	TYY TYY	DC DC
Remaining V	Vorh.	Thr	ee won	ui Kolli	ing Prog	grami	ne			filters: 3 Months Rolli		mission.	31-M	-21 Submit	Programme M25 SID Programme F	lev 20	TW	DC DC
									Page 7 of 18				30-Ju		Pogramme M26	E	TWY	DC

)	Activity Name	Orig Du	Sat	Firish	Late Stat	Lote Finish	Totat Float	(De	27 04 11 18 2	5 01 04 1	15 22 1	29 05	29	1 26	1 63 1	30 10 17 2	4 31 1	31	21
59 - Piling Wo	orks	167	25-May-21 A	10-Dec-21	09-Oct-20	16-Apr-21	-197	4.0											
Piling Works	- Pier P-9A	60	30-Sep-21	10-Dec-21	26-Jan-21	16-Apr-21	-197	4.6											
3.7-3800	59 - Borezi Piles for 9A (1 nr)	36	30.5ep-21	12-Nov-21	26-Jan-21	15-Mar-21	-197	4.0							-			-	
3.7-3802	59 - 9A Proof drilling & Piles testing	24	13-Nov-21	10-Dec-21	16-Mar-21	16-Apr-21	-197	0.0										-	-
Piling Works	- Pier P-98	24	26-301-21	21-Aug-21	16 Jan 21	19-Feb-21	-149	0.0											
3.7-3906	S9 - 98 Proof drilling & Piles testing	24	26-3d-21	21-Aug-21	16-Jan-21	19-Feb-21	-149	0.6		_	-								
Piling Works	- Pier P-9C	24	26-34-21	21-Aug-21	28-Nov-20	28-Dec-20	-188	0.0											
3.7-3810	59 - 9C Proof drilling & Piles testing	24	26-34+21	21-Aug-21	28-Nov-20	28-Dec-20	-188	0.0											
Piling Works	- Pier P-9D	24	25-May-21 A	21-Aug-21	19-Oct-28	16-Nov-20	-722	0.0			6 1								
3.7-3816	59 - 9D Proof delling & Piles testing	24	25-May-21 A	21-Aug-21	19-Oct-20	16-Nov-20	-222	0.0			-						1		
Piling Works	- ABUT A-4H/9E	24	26-34-21	21-Aug-21	09-Oct-20	05-Nov-20	-230	0.0									1		
3.7-3820	59 - 4H/9E Proof driling & Piles testing	24	26-34-21	21-Aug-21	09-Cict-20	06 Nov 20	-230	0.0		_									
59 - Pile Caps	s, Pier / Abutment	93	23-Aug-21	11-Dec-21	07-Nov-20	13-May-21	-176	40.6											
Pier 98		66	23-Aug-21	10-Nov-21	20-Feb-21	13-May-21	-149	8.6											
3.7-3832	59 · Install sheetpile for pile cap 98	10	23 Aug 21	02-5ep-21	20-Feb-21	03-Mar-21	-149	1.0			-	-							
3.7-3834	59 - Excavation down to formation level C-98	11	03-Sep-21	15-Sep-21	04-Mar-21	16-Mar-21	-149	2.6				-							
3.7-3836	S9 - Prepare pile head (2nrs) C-98-S9	10	16-Sep-21	28-Sep-21	17-Mar-21	27-Mar-21	-149	1.0					-	-					
3.7-3836	59 - Construct pile cap C-9B-59	15	29-5ep-21	18-0d-21	29-Mar-21	19-Apr-21	-149	2.0						-	-				
3.7-3840	59 - Construct Pior P-98-69 (2 Lifts)	20	19-Oct-21	10-Nov-21	20 Apr-21	13 May 21	-149	2.6								_			
Pier 9C		34	19-0d-21	25-Nov-21	29-Dec-20	05-Feb-21	-234	4.0											
3.7-3842	59 - Install sheetpile for pile cap 9C	10	19-00-21	29-Oct-21	29-Dec-20	09-Jan-21	-234	1.0								-	-		
3.7-3844	59 - Exavation down to formation level C-9C	11	30-00-21	11-Nov-21	11-3an-21	22-Jan-21	-234	2.6				8							
3.7-3846	59 - Prepare pile head (2nrs) C-9C-59	15	12-Nov-21	26-Nov-21	23-Jan-21	96-Feb-21	-234	1.0	i magana para para para para para para para p	on an	41	-			en na an			-	-
Pier 9D		76	01-Sep-21	01-Dec-21	17-Nov-20	08-Mar-21	-219	15.0									i i		
3.7-3852	59 - Install sheetpile for pile cap 9D-A		01-Sep-21	04-Sep-21	17-Nov-20	20-Nev 30	-230	1.0									D and		
3.7-3854	S9 - Install shaotpile for pile cap 9D-8		065qp-21	11-Sep-21	21-Nov-20	27-Nov-20	-230	1.0				-							
3.7-3856	S9 - Excevation down to formation level C-9D-A		06-Sep-21	16-Sep-21	04-Dec-20	15-Dec-20	-219					_	-						
3 7-3858	59 - Exavation down to formation level C-9D-8		135ep-21	25-540-21	28-Nov-20	10-Dec-20	-230	2.0											
3.7-3860	59 - Prepare pile head (1nr) C9D-A-59		1750021	23-Sep-21	16-Dec-20	21-Dec-20	-219	1.0									1 1		
3.7-3864	S9 - Construct pile cap C-9D-A-S9		245co-21	04-0d-21	22-Dec-20	02-lan-21	-219	1.0						_					
3.7-3862	59 - Prepare pile head (1nr) C9D-8-59		27-Sep-21	02-Oct-21	11-Dec-20	16-Dec-20	-230												
3.7-3868	59 - Construct Pier P-9D-A-59 (2 Lifts)		05-0d-21	28-0d-21	04-Jan-21	26-Jan-21	-230				1 I			1			1 1		
3.7-3000	59 - Construct pla p-schwad (2 bits) 59 - Construct pla gap C-9D-8-59		08-00-21	18-Oct-21	17-Dec-20	28-Den-20	-736	10											
3.7-3870	59 - Construct Pier P-9D-8-59 (3 Lifts)		29-06-21	01-Dec-21	27-Jan-21	08-Mar-21	-219	- 350							2.4				
			23-Aug 21	11-Dec21	07-Nov-20	12-Mar-21	-219												
Abutment 4H	59 - Install sheetole for ple cap 4H/9E		23Aug21	31-Aug-21	07-Nov-20	12-Mar-21	-230	13.4											
3.7-3874	S9 - Excavation down to formation level A-HV9E		1945 014 <b>0</b> 14 5				-230												
			01-Sep-21	15-Sep-21	24-Nov-20	08-Dec-20		2.0					1 August	_	-				
3.7-3878	59 - Prepare pile head (6nns) C-4H/9H	14	16.Sep-21	04-00-21	09-Dec-20	24-Dec-20	-224	2.0						10 - 11					
Current Mile		Control Koude	n Deut	. K-! '	Tak Fr	+ /M	L 07			Project ID: KTE- Baseline:	WP21_M27				Deta 20-Agi-21	Submit CSD Prog		Checked Tyy Tyy	C
Citizal Rev	naining Wark	Central Kowlo				ing Prog			ate) (Rev21 - CSD)	Easenne: Layout: KTE - 3 Filter: TASK filte			Submission.		30-Apr-21 20-May/21 31-May/21 21-Jun-21 30-Jun-21	Monthly Program Submit CSD Prog Monthly Program Submit CSD Prog Monthly Program	ramme Rev 19 ne M25 ramme Rev 29	ThY ThY ThY ThY	0000

#### Contract No. HY/2018/02 Environmental Monitoring & Auditing

D	Activity Name	Orig Dur	Sat	Firish	Line Star	Late Firish	Totar Float	TR (De)	0 300 0 27 0 1 27 00 11 15 1	25 01	August 28 08 15	22 1 29 1	September 29 5 12	19 9	1 0 1	October 30 10 1 17	24 39	Novembe 31 07 14	1 21 1
3.7-3880	S9 - Construct Abutment Base A-4H/SE	26	05-0d-21	04-Nov-21	28-Dec-20	27-Jan-21	-224	4.0	0	24 01	<u>w 1 n 1</u>	44 25	2 U					<u> </u>	
3.7-3882	59 - Construct Abutment A-4H/9E	32	05-Nov-21	11-Dec-21	28-Jan-21	12-Mar-21	-224	4.0	10								-	_	
Sch_3.8 Bridge	e S1/S9 Works	202	04-May 21 A	19-Jan-22	08-Cict-20	02 Aug 21	-140	58.0	0										
S1/S9 - Pilling	Works	202	04-May-21 A	19-Jan-22	08-Oct-20	21-Jun-21	-175	-41.0	10										
Piling Works -	Pier P-1D-8	92	15-Jul-21 A	29-Oct-21	05-Nov-20	26-Jan-21	-220	20.0	0			111					1		
3.8-4000	\$1/59 - Bored Piles for 10-61/59-2 (1 nr) (Telescopic Casing Method)	65	15-Jui-21 A	29-Sep-21	05-Nov-20	24-Dec-20	-221	28.0	0	-			_	_					
3.8-4002	51/59 - 1D-51/59-2 Proof driling & Ples testing	24	30.Sep 71	29-0d-21	29-040-20	26-Jan 21	-220	0.0	0							_	-		
Piling Works -	Pier P-1E	24	26-3d-21	21-Aug-21	01-Apr-21	04-May 21	-91	0.0	o										
3.8-4006	\$1/59 - 1E Proof citiling & Piles testing	24	26-3:4-21	21-Aug-21	01-Apr-21	04-May-21	-91	0.0	0		-								
Piling Works -	Pier P-1F/7A	159	22-May-21 A	26-Nov-21	08-Oct-20	21-Jun-21	-132	12.0	10										
3.8-4008-1	\$1/59 - Borad Piles for 1F/7A-\$1/59-1 Part 1 (upto -\$3.6mPD)	85	22-May-21 A	15-Aug-21	08-Oct-20	29-Oct-20	-283	12.0	0		-								
3.8-4008-3	51/59 - Borad Piles for 1F/7A-51/59-1 Part 2	61	15-Aug-21	16-0d-21	30-Oct-20	29-Dec-20	-283				-			_		_			
3.8-4010	S1/S9 - 1F/7A Proof drilling & Piles testing	24	30-08-21	25-Nov-21	24-May-21	21-Jun-21	-132	0.0	0										_
Piling Works -	ABUT A-1G	95	04-May-21 A	19-Jan-22	10-Mar-21	08-Apr-21	-282	9.0	0										
3.8-4012-2	51/59 - Bored Piles for 1.G-51/59-1 (Telescopic Casing Method) Part 2 (RCD		04-May-21 A		10-Mar-21	10-Mar-21		4.0	0										
3.8-4012-5	constraint) 51/59 - Bored Piles for 1.G-51/59-3 (Telescopic Casing Method) Part 1 (upto	20	(15-3un-21 A	18-Jun-21 A	10-Mar-21	10-Mar-21		3.0	0										
3.6-4012-5	-61mPO) 51/59 - Bored Piles for 1.G-51/59-3 (Telescopic Casing Method) Part 2 (RCD	30	10-Jui-21 A	19-lan-22	10-Mar-21	08-Apr-21	-282	2.0					_		1		-	_	-
	constraint) aps, Pier / Abutment		23-Aug-21	03-Dec-21	04-Dec-20	02-Aug-21	-103	17.0											
Pier 1D	apa, ma / Auduman		085ep-21	03-Dec-21	04-040-20	09-Mar-21	-720	7.0											
3.8-4034	51/59 - C-1D-A Reinstatement of sab of Kal Tak River		085ep-21	29-5ep-21	04-Dec:20	24-Dec-20	-221						1						
3.8-4028	S1/59 - Prepare pile head (1nr) C-1D-A-S1/S9		30.5ep 21	09-Oct-21	28-Dec-20	06-lan-21	-221	1.0											
3.8-4030	51/59 - Construct Pier P-51/59-651/59 (2 Lifts)		11-0:0-21	02-Nov-21	07-Jon-21	28-lan-21	-221	3.0											
																_	L		
3.8-4016	51/S9 - Install sheetpile for pile cap 10-8		30-Oct-21	04-Nov-21	27-Jan-21	01-Feb-21	-220	1.0											
3.8-4018	51/59 - Excavation down to formation level C 1D B S1/S0		05 Nov-21	13-Nov-21	02-Feb-21	10-Feb-21	-220	1.0	N Shee and the second second		n na farrada								
3.8-4020	S1/S9 - Prepare pile head (1n/) C-1D-B-S1/S9		15-Nov-21	19-Nov-21	11-Feb-21	23-Feb-21	-220	1.0	0								1		
3.8-4021	S1/S9 - Construct pile cap C-1D-8-S1/S9		20-Nov-21	03-Dec-21	24-Feb-21	09-Mar-21	-220												-
Pier 1E		74	23-Aug-21	19-Nov-21	05-May-21	02-Aug-21	-91	10.0	ю										
3.8-4036	51/59 - Install sheetpile for pile cap 1E	б	23-Aug-21	28-Aug-21	05-May-21	11-May-21	-91	1.0	10										
3.8-4038	\$1/59 - Exavation down to formation level C-1E-51/59	14	30-Aug-21	14-Sep-21	12-May-21	28 May 21	-91	2.0	10										
3.8-4040	\$1/59 - Prepare pile head (2nm) C-1E-51/59	9	15-Sep-21	25-Sep-21	29-May-21	08-Jun-21	-91	1.0	0										
3.8-4042	S1/S9 - Construct pile cap C-1E-S1/S9	22	27-Sep-21	23-0d-21	09-Jun-21	06-Jul-21	-91	3.0	0					_		_			
3.6-4044	51/59 - Construct Pier P-1E-51/59	23	25-0d-21	19-Nov-21	07-34-21	02-Aug-21	-91	3.0	0										
Sch_3.9 Bridge	e CKRW Works	113	26-3,4-21	07-Dec 21	27-Feb-21	11 May 22	118	14.0	0										
CKRW - Pilling	Works	113	26-3:4-21	07-Dec-21	27-Feb-21	20-Oct-21	-41	4.0	0										
Piling Works -	Pier P-K5-CKRW	36	27-00-21	07-Dec-21	27-Feb-21	14-Apr-21	-196	4.0	0										
3.9-4200	CKRW-Bored Piles for KS-CKRW-2 (1 nr)	36	27-0d-21	07-Dec-21	27-560-21	14-Apr-21	-196	4.0	0										-
Piling Works -	ABUT A-K4-CKRW	24	26-34-21	21-Aug-21	20-Sep-21	20-Oct-21	48	0.0	0										
3.9-4226	CKRW - ABUT A-K4-CKRW Proof driling & Piles testing	24	26-34-21	21-Aug-21	20-Sep-21	20-0d-21	48	0.0	0	-	-								
Carent Me	A CONTRACTOR OF A CONTRACTOR O				T. I. F.		07				D: KTE-WP21_M	27			Data 20 Apr-21		Revision togismme Rav 18	TΥ	Checked Ap
Citical Remaining V	erngWek Central Ko	owloc				at (Mont ing Prog			late) (Rev21 - CSD)		KTE - 3 Months F ASK filters: 3 Mor	toling Programme the Rolling_1, KT			30-Apr-21 20-May-21 31-May-21 21-Jun-21 30-Jun-21 20-Juh-21	ManthlyProgri Submit CSDP ManthlyProgri	rogramme Rev 19 imme MSS rogramme Rev 20	יד דר ידר דר דר דר	n DC N DC N DC N DC

	Activity Name	Orig Dur	Sat	Firish	Late Start	Late Parish	Total Float	TRA (Dey)	July 27 27 04 11 18 2	a	28 28	6 9 9	35 1	Sapta 2	9	1 28 1	8 1	30 10	1.4	1 31 1	Movemb 31	er v	-
GRW - Pile Ca	aps, Pier / Abutment	92	26-34-21	12-Nov-21	27-Apr-21	11-May-22	139	10.00	21 04 11 18 2	A 91	00 1	0. 22	28	00 12		a	0	10 17	8	31	W I	1	1
butment A-K	1-CKRW	92	26-34-21	12-Nov-21	27-Apr-21	11-May-22	139	10.00															
9-4230	CRRW - Excivation Down to Formation Level A+C1-CRRW	14	26-Jul-21	10-Aug-21	27-Apr-21	13-May-21	-73	2.00	-	_	-												
1.9-4232	CKRW - Prepare pile head (4nrs) A-K1-CKRW	17	11-Aug-21	30-Aug-21	16-Sep-21	07-0d-21	31	1.00			-												
1.9-4234	CNRW - Construct Abutment Base A-K1-CKRW	19	31-Aug-21	21-Sep-21	08-Oct-21	30-Od-21	31	3.00						_	-								
1.9-4236	CKRW - Construct Abutment A-K1-CKRW	26	02-0d-21	02-Nov-21	09-Nov-21	08-Dec-21	31	4.00									_						
9-4238	CKRW - A-KI - CKRW Install Permeate Membrane and Baddill	9	03-Nov-21	12-Nov-21	29-Apr-22	11-May-22	139	0.00	·····									15501 7155		0			+
	oad Underpass 53		19-May-21 A		24-Nov-20	01-Feb-25	1228	33.00															
	e 1 (Ramp W8-W5 & Box Section Bay B1)		19-May-21 A		24-Nov-20		1228	33.00															
	pass (Ramp & Box Section Bay B1)		19-May-21 A		24-Nov-20	01-Feb-25	1317	3.00															
							1217																
H4562	S3 - Excavation down to 0.5m below 3rd waling & strut; install waling & strut			26-May-21 A		24-Nov-20		2.00															
+4563	53 - Excavation down to 0.5m below 4th waling & strut; install waling & strut		0.000.000000000000000000000000000000000	09-Jun-21 A		24 Nov-20														1			
1-4564	S3 - Excavation down to final formation level for Ramp			16-Jun-21 A		24-Nov-20		1.00															
1-1565	53 - Exavation down to 0.5m below 5th waling & strut; install waling & strut.	10	17-3un-21 A	03-Aug-21	02-Feb-21	10-Feb-21	-135		-	-													
1-4564A	53-Soil replacement (PMI-3000) for W6 and W7	4	17-Jun-21 A	23-Jun-21 A	01-Feb-25	01-Feb-25																	
4567	53 - Exavation down to final formation level for Box Section	6	04-Aug-21	10-Aug-21	11-Feb-21	24-Feb-21	-135			-	•												
C Structures		152	30-Jun-21 A	25 Nov-21	25-Feb-21	22-34-21	-105	30.00												1			
Ion Section			114021	20-Mar-21	211105-21	16-Similar		\$15.00															
Bay B1 (L=2	0m) Pump Sump & FS Plant Room	89	11-Aug-21	25-Nov-21	25-Feb-21	16-Jun-21	-135	14.00															
4-4566	53-B1 - Construct Sump Pump Base slab	12	11-Aug-21	24-Aug-21	25-Feb-21	10-Mar-21	-135	2.00			-	-											
4-4568	S3-B1 - Construct Sump Pump wall & skib upto -1.084	24	25-Aug-21	21-Sep-21	11-Mar-21	12-Apr-21	-135	5.00						-	-								
4-4569	S3-61 - Construct Base Slab (with Plant Room)	30	23-Sep-21	29-Oct-21	13-Apr-21	18-May-21	-135								-	1	-		_				
4-4570	53-81 - Constunt RC Wall & Sump Pump wall & slab upto +2.915	24	12-00-21	09-Nov-21	30-Apr-21	29-May-21	-135	4.00											-				
4-4574	53-B1 - Constant Top Slab	14	10-Nov-21	25-Nov-21	31-May-21	16-Jun-21	-135	3.00													_	_	i
tamp Will to 1	WS	105	30 xe-21.4	21500 11	15-Hov 71	22-10-31	114	15.00															
Bay W5		56	26-34-21	29-Sep-21	15-May-21	22-34-21	-58	4.00												t f			
4-4544	\$3-W5 - Construct Base slab	13	26-34-21	09-Aug-21	15-May-21	31-May-21	-58	2.00															
4-4548	S3-W5 - Construct Side Wall (1st pour)	15	10-Aug-21	25-Aug-21	01-Jun-21	18-Jun-21	-58	2.00			-	_											
4-45-09	S3-W5 - Construct Side Well (final pour)		27-Aug-21	29-Sep-21	19-Jun-21	22-3:4-21	-58						1		_								
Bay W6	The second reaction for the board		30-km-21 A	23-Aug-21	22-May-21	18-Jun-21	-55	4.00						10	1								
	53.00 Constant Deputies									_													
4-4540	S3-W6 - Construct Base salo S3-W6 - Construct Side Wal		30-3un-21 A		22-May-21	28 May 21	-55	2.00			hadaa												4
4-4542	Same - Censeu(T Side WBI		04-Aug-21	23-Aug-21	29-May-21	18-Jun-21	-55	2.00		-													
Bay W7	7		05-Jul-21 A	09-Aug-21	22-May-21	22-30-21	-15	4.00															
4-4590	\$3-W7 - Construct Base slab		05-Jul-21 A	19-Jui-21 A		22-Mey-21		2.00															
4-4582	S3-W7 - Construct Side Wall	- 82	20-Jui-21 A	09-Aug-21	10-34-21	22-3.4-21	-15	2.00		_													
Bay W8		36	28-3d-21	07-Sep-21	09-Jun-21	22-3.4-21	-40	4.00															
4-4572	S3-W8 - Construct Base slab	18	28-30-21	17-Aug-21	09-Jun-21	30-Jun-21	-40	2.00			-												
4-4578	53-W8 - Construct Side Well	18	18-Aug-21	07-Sep-21	02:30+21	22-30+21	40	2.00				-		0									
Carent Mea Actual Work Otical Parent Remaining V	Central Ko	owloc				t (Monti ing Prog			e) (Rev21 - CSD)	Baselin Layout	KTE - 3 M	P21_M27 anths Rolling 3 Months Ro			ssion.		Data 20 Apr-21 30 Apr-21 20 May 21 31 May 21 21 Jun-21	Monthly R Submit C Monthly R	Re SD Programme Ma SD Programme Ma Programme Ma SD Programme	24 no Rev 19 25	1	NY ( NY ( NY (	00000
										Page 1	0 of 18						30-Jun-21 20-Jul-21	Manihyi	SO Programme SO Programme	20		WY I	

D	Acivity Name	Orig Dur Stat	Firish	Late Stat	Lote Finish	Totat Float	(Dely)	27 04 11 18 22	5 61 1	28	121	29 05	29	19	26	3 1	30	24	31 07	31	1.21
ch_5A Retain	ing Walls and At-grade Road Works	222 24-MBF-21 A	20-006-21	62-060-20	01-Feb-26	1207	112.00				u	00	16	.07				e	51 W	14	- 11
Retaining Wal	lls	191 30-Apr-21 A	20-Dec-21	02-Dec-20	01-Fab-25	1207	102.00														
RW-51-a		84 23-Aug-21	01-Dec-21	25-34-32	02-Nov-22	268	14.00														
5A-5000	RW-S1-e - Expandion down to formation level +2.2/+6.0	7 23-Aug-21	30-Aug-21	25-34-22	01-Aug-22	268	1.00				-										
5A-5002	RW51-e - Plate Load Test and Report	14 31-Aug-21	15-Sep-21	02-Aug-22	17-Aug-22	268	2.00														
SA-5004	RV#51-a - Construct Base Slab (Bay 1)	7 16-Sep-21	24-Sep-21	18-Aug-22	25-Aug-22	268	1.00						-								
SA-5006	RW51-a - Construct Base Slab (Bay 2)	12 25-Sep-21	09-0d-21	27-Aug-22	09-Sep-22	269	2.00								-	_					
SA-5008	RWS1-e - Construct Well (Bay 1)	13 25-5ep-21	11-0d-21	26-Aug-22	09-5ep-22	268	2.00							-	-	-					
5A-5010	RWS1-a - Construct Wall (Bay 2)	15 12-00-21	29-0d-21	10-Sep-22	28-Sep-22	268	2.00	r napozora walewo za													
5A-5012	RW451-a - Fill upto formation level	28 30-Och-21	01-Dec-21	29-Sep-22	02-Nov-22	258	4.00											į.		_	_
RW-51		59 26-34-21	04-0::-21	22-304-21	25-00-21	17	12.00														
Retaining Wa		59 26-3,673	04-0021	22/04/14	2540(17)		12,00														
5A-5024	RWS1 - Exavation down to formation level +2.9/+4.0	10 26-30+21	05-Aug-21	22-34-21	02-Aug-21	-3	2.00	-	_												
5A-5028	RWS1 - Plate Load Test and Report (P1)	5 06-Aug-21	11-Aug-21	17-Aug-21	21-Aug-21	9	2.00														
5A-5030	RWS1 - Construct Base Slab (Bity 12/11/10)	21 12-Aug-21	04-Sep-21	23-Aug-21	15-Sep-21	9	3.00			6	-										
54-5032	RW-S1 - Construct Base Slab (Bay 9/8)	14 05-Sep-21	21-Sep-21	16-Sep-21	04-0:d-21	9	2.00					-	<u>i – i</u>	-							
5A-5034	RWS1 - Construct Wall (Bay 12/11/10)	14 065ep21	21-Sep 21	27-Sep-21	13-0#21	17	2.00					-	10 - 61	-							
54-5038	RW-51 - Construct Wall (Bay 9/8)	9 235ep-21	04-0c-21	15-Oct-21	25-0d-21	17	1.00					8		_	-						
RW-52		102 27-34-21	25-Nov-21	20-3ul-21	18-Nov-21	-6	22.00														
5A-5095	RWS2 - Install remaining sheet piles for RWS2 (CE0174)	12 27-34-21	09-Aug-21	20-3#21	02-Aug-21	6	4.00		_			1						1			
5A-5096	RWS2 - Excevation down to formation level +2.7/+5.0	7 10-Aug-21	17-Aug-21	03-Aug-21	10-Aug-21	-6	1.00			-											
5A-5098	RWS2 - Plate Load Test and Report (P1)					6	1.00			1 1											
		5 18-Aug-21	23-Aug-21	11-Aug-21	16-Aug-21		10035														
5A-5100	RW-S2 - Construct Base Slab (Bay 7)	7 24-Aug-21	31-Aug-21	17-Aug-21	24Aug21	6	1.00														
5A-5102	RW/S2 - Construct Base Slab (Bay 6)	7 01.5ep21	08-Sep-21	25 Aug-21	01 Sep 21	6	1.00					20 - Ar									
SA-5104	RW/S2 - Construct Wall (Bay 7)	5 01-Sep-21	06-Sep-21	23-5¢p-21	28-Sep-21	18	1.00	a 2 a						_							
5A-5106	RW/S2 - Construct Base Slab (Bay 5/4)	14 09-Sep-21	25-Sep-21	02-Sep-21	17-Sep-21	-6	2.00														
5A-5108	RV/FS2 - Construct Wall (Bay 6)	5 09-Sep-21	14-Sep-21	29-Sep-21	05-Oct-21	16	1.00														
5A-5110	RWS2 - Construct Base Slah (Bay 3)	7 27Sep31	65-0d-21	18-Sep-21	27.Sep 21	6	1.00					1						1			
5A-5112	RW/S2 - Construct Wall (Bay 5/4)	9 27-Sep-21	07-0d-21	06-Oct-21	16-Oct-21	7	1.00									-					
5A-5113	RWeS2 - Plate Load Test and Report (P2)	5 06-0d-21	11-00-21	28-Sep-21	04-04-21	-6	1.00														
5A5116	RW/SZ - Construct Wall (Bay 3)	9 08-0d-21	19-0d-21	18-0ct-21	27-0d-21	7	1.00														
SA-5114	RW/S2 - Construct Base Slab (Bay 2/1)	19 12-0d-21	03-Nov-21	05-Od-21	27-0d-21	-6	3.00									-					
54-5118	RW/S2 - Construct Wall (Bey 2/1)	19 04-Nov-21	25-Nov-21	28-0d-21	18-Nov-21	-6	3.00												-	-	-
RW-54		191 30-Apr-21 A	20-Dec-21	62-Dec-20	13-Apr-22	88	23.00														
545137	RWS4 - Replacement of Existing Sol with Rock Fill and Sub-base (Bay7 to 10) (PMI-204)	7 30-Apr-21 A	10-May-21 A	21 Jan-21	21 Jan 21																
5A-5138	RW/54 - Plate Load Test and Report	14 05-May-21 A	21-May-21 A	62-Dec-20	02-Dec-20		2.00														
5A-S140	RW/S4 - Construct Base Slab (Bay 10/8);	14 11-May-21 A	18-May-21 A	02-Dec-20	02-Dec-20		2.00											1			
5A/5142	RWS4 - Construct Base Slab (Bay 9);	14 19-May-21.4	28-Mey-21 A	02-Dec-20	02-Dec-20		2.00														
Danei Mie	ubout .							14		. internation	1102				1	Data		Revisio			hided
Carent Me     Adual Work     Otcol Rom     Remaining V	Central Ko		te - Kai T ree Mon					) (Rev21 - CSD)	Baseline Layout I	D: KTE-WP21 KTE - 3 Month KSK filters: 3 I	is Rolling Pr		Submission	n.	12/2/2/2	3Apr-21 3Apr-21 3May/21 1-May/21 1-Jun-21 3-Jun-21	Monthly Prog Submit CSD Monthly Prog Submit CSD	Programma R pamme M24 Programme R pamme M25	kov 18 kov 19	7¥ 7¥ 7¥ 7¥ 7¥	

	Activity Name	Orig Dur Sta	Finish	Late Star	Lote Finish	Totet Float	TRA (Dely)	27 04 11 18 3	জ জা	August 28 Al (6 ) 20 1	Saptember 29 30 05 12 10	8 8	30 30	9 9 9	Movember 31	
5A/5140A	RW/64 - Construct Wall (Bay 10/8) ind. TCSS duct	21 19-May	11 A 18-Aug-21	19-Jan-21	11-Feb-21	-147	1.00		ea 191	0 13 22	28 03 12 13	21 10	10 17 3		W 14	21
-5137A	RW/54 - Replacement of Existing Sol with Rock Hill and Sub-base (Bay 4 to 5 (PMB-000))	) 7 22-May	1 A 31-May-21 A	02-Dec-20	02-Dec-20											
A-5142A	RW54 - Construct Wall (Bay 9) Ind. TCSS duct	9 29-May	21 A 05-Aug-21	01-Feb-21	11-Feb-21	-136	1.00	-	_							
A5144	RW-S4 - Construct Base Slab (Bay 7);	14 29-May	1 A 12-Jun-21 A	21-Jan-21	21-Jan-21		-									
A5145	RW54 - Construct Base Slab (Bay 5);	16 29-May	21 A 23 Jun 21 A	02-Dec-20	02-Dec-20		2.00									
A5150	RW+54 - Construct Base Slab (Bay 4);	14 12-km	1 A 26-Jun-21 A	02-Dec-20	02-Dec-20		1.00									
ia-5144A	RW-S4 - Construct Wall (Bay 7) ind. TCSS duct	19 26-Jul	21 16-Aug-21	21-Jan-21	11-Feb-21	-145	-		_	<b></b>						
5A/5145A	RW54 - Construct Wall (Bay 5) ind. TCS5 duct	21 26-34	21. 18:Aug-21	02-Dec-20	28-Dec:20	-185	-		_	_						
5A-5150A	RW54 - Construct Wali (Bay 4) ind. TCSS dust	21 26-34	21 18-Aug-21	02-Der-20	28-Dec-20	-185			_	_						
5A-5137C	RWS4 - Replacement of Existing Soil with Rock Fill and Sub-base (Bay 3)	3 26-34	21 28-34-21	10-Dec-20	12-Dec-20	-178	-									
5A-5154	(PMI: 300) RWS4 - Construct Base Slab (Bay 3);	14 29-34	21 13-Aug-21	14-Dec-20	31-Dec-20	-178	1.00		-	-					-	
SA-5156	RW54 - Construct Wall (Bay 3) ind. TCSS duct	35 14-Aug	21 24-Sep-21	02-Jan-21	11-Feb-21	178	1.00			-						
54-51378	RW/S4 - Replacement of Existing Sol with Rock fill and Sub-base (Bay 6)	3 19-Au		29-Dec-20	31-Dec-20	+185										
5A-5146	(PMI:300) RWS4 - Construct Base Slab (Bay 6);	14 23-Aug	21 07-Sep-21	02-Jan-21	18-Jan-21	-185	2.00			-						
5A-5146A	RW54 - Construct Wall (Bay 6) ind. TCS5 duct	21 08.5m		19-Jan-21	11-Feb-21	-185	1000									
5A-5158	RW54 - Construct Base Slab (Bay 2)	14 2550		14-Jan-22	29-Jan-22	90	1.00									
5A-5168	RWS4 - Fill up to formation level	65 05-Od		19-Feb-21	11-May-21	-185	4.00								_	_
5A-5158A	RW-54 - Construct Wall (Bay 2) ind. TCS5 duct;	21 13-04		31-Jan-22	02-Mar-22	90	1.00									
SA5162	RW54 - Construct Hair (Key 2) Int. 1035 Unit,	14 08-Nov		03-Mar-22	18 Mar 22	90	1.00									_
5A-5162A	RWS4 - Construct Wall (Bay 1) Ind. TCSS duct	21 24-140		19-Mar-22	13-Apr-22	90	1.00									
	KIPSH - Children Hai (day 1) Int. 1033 660	180 05-May			01-Feb-26	1218	11111							- I.		_
RW-59		100 00-1149		04-Dec-20	01-1-80-20	1210	31.00							1 1		
				(101 CO	01010	123.0	31,700									
54-5284	R0//59 - Excavation down to formation level +4.3/+4.8		1 A 12-May-21 A		94-Dec:20		1.00									
5A-5286	RWS9 - Plate Load Test and Report		1 A 29-May-21 A		04-Dec-20		2.00									
54-5287	RWS9 - Replacement of Existing Soil with Rock Fill and Sub-base (Bay11) (PMI-204)	4 05-Jun-	1 A 10-Jun-21 A	01-Feb-26	01-Feb-25			a shore har har a						o hon b		
54-5288	RWS9 - Construct Base Slab (Bay 11)	7 11-km	1 A 30-Jun-21 A	64-Dao-20	04-Dec-20		1.00									
54-5292	RIV-59 - Construct Base Slab (Bay 9)	7 05-JuH	1 A 29-Jui-21 A	04-Dec-20	04-Dec-20		2.00									
5A-5290	KW/59 - Construct Base Slab (Bay 10)	7 06-Jul-	1 A 19-3ui-21 A	04-Dec-20	04-Dec-20		1.00									
5A-5294	RW/59 - Construct Base Slab (Bay 8)	7 13-Jul	1 A 19-3ui-21 A	04-Dec-20	04-Dec 20		2.00									
54-5296	RW459 - Construct Base Slab (Bay 7)	7 26-3d	21 02-Aug-21	04-Dec-20	11-Dec-20	-183	2.00	-	-							
5A-5298	RWS9 - Construct Base Slab (Bay 6)	7 03-Aug	21 10-Aug-21	12-Dec-20	19-Dec-20	-183	2.00		-							
54-5300	RW-S9 - Construct Base Slab (Bay 5)	9 11-Aug	21 20-Aug-21	21-Dec-20	02-Jan-21	-183	2.00									
5A-5302	RW/S9 - Construct Base Slab (Bay 4)	9 21 Aug	21 31-Aug-21	04-lan-21	13-Jan-21	-183	2.00			Contraction						
54-5304	RIV-S9 - Construct Well (Bay 4)	14 01-Sep	21 16-Sep-21	14-Jan-21	29-Jan-21	-183	2.00				-					
5A-5306	RW59 - Construct Base Slab (Bay 3)	9 01-Sep	21 10-Sep-21	20-Jan-21	29-Jan-21	-178	2.00									
5A-5308	RW59 - Construct Base Slab (Bay 2)	11 115q	21 24-Sep-21	04-Feb-21	23-Feb-21	-174	2.00	***				1 I				
5A-5310	RW-S9 - Construct Wall (Bay 3)	15 17-Sec	21 06-04-21	30-Jan-21	23-Feb-21	-183	2.00									
54-5314	RV#S9 - Construct Well (Bay 2)	16 07-Oct	21 26-00-21	24-Feb-21	13-Mar-21	-183	2.00						-			
Current Mile							L		Project	D: KTE-WP21_M27		Data 204ci-21	Submit CSD Prog	Beviece perime Rev 18	Che Tyr	ded A
Actual Won	naning Wark		oute - Kai Three Mor					e) (Rev21 - CSD)	Baselin Layout	r: KTE - 3 Months Rolling Pr ASK filters: 3 Months Rolli		20-40-21 30-40-21 20-May/21 31-May/21 21-Jun-21 30-Jun-21 20-Jul/21	Monthly Program Submit CSD Prog Monthly Program Submit CSD Prog Monthly Program Submit CSD Prog	mi M24 pamme Rev 19 me M25 pamme Rev 29 me M25	TYY TYY TYY TYY TYY TYY	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

iD	Activity Name	Orig Dur S	st Firish	Late Star	Lote Finish	Total Float	T) (De		Aqquit         September         Citizber         November           20         23         23         30         31           25         01         08         15         22         29         05         12         19         26         03         16         17         24         31         07         14         21
54-5312	RW/S9 - Construct Base Slab (Bay 1)	11 05-8	w-21 17-Nov-	11 02-Mar-21	13-Mar-21	-202	2.0	0	
54-5316	RW-50 - Construct Wall (Bay 1)	17 18-6	9421 074Dec-	1 15-Mar-21	07-Apr-21	-202	2.0	0	
Road Works		208 24-M	N21 A 03-Deci	1 13-Apr-21	23-Aug-21	-85	10.0	0	
Initial Stage f	for Kal Fuk Road	28 26-1	1-21 26-Aug-	05-3ul-21	06-Aug-21	-17	4.	0	
5A-5500	KFRd - Temp relocate existing Traffic Gantry (EB)	14 260	#21 10-Aug-	05-30-21	21-3.421	-17	2.1	0	
SA-5502	KRRD - Tomp relocate existing Traffic Gantry (WB)	14 11-4	ig-21 26-Aug-	22-34-21	06-Aug-21	-17	2.0	0	
Pre-stage at I	Kai Fuk Road for KFR TTA Stage 1, 1.1, 1.2 & 1.3	208 24-M	-21 A 03-Dec-	1 13-Apr-21	23-Aug-21	-65	6.	0	
5A-5521A	KFR(Pre-stage) - additional watermain works (PMI-199)	55 24-M	r-21 A 07-Aug-	11 13-Apr-21	26-Apr-21	-85			
54-5521	KBR(Prostage) - Relocation of temp water motor (WSD) (EW-129)	37 25-30	-21 A 07-Aug-	11 21-Apr-21	05-May-21	-78			
54-6519	KIR(Pre-stage) - Road Pavement for KIR TTA Stage 1	18 24-h	-21 A 21-Aug-	11 06-May-21	11-May-21	-85	2.0	0	
54-5523	KFR(Pre-stage for 1.1) - Road Pavement for KFR TTA Stage 1.1	24 21-0	d-21 17-Nov-	10-3.4-21	06-Aug-21	-65	2.1	0	
54-5523A	(incl.baddfiling) KFR(Piestage for 1.2) - Road works for contra flow section	14 184				-65			
	Instruction of Existing Box Culvert	108 04-M				222			
	e-construction Works		r21 A 02-Sep-			222			
BC- Reinstate			y-21 A 02-Sep-	and and then		222	0.0		
68-5778	BC - Removal all hanging formwork inside the box culvert cell 1, 2, 3 & 4 (by diver)	10 04-M	y-21 A 25-May-2	1 A 29-Apr-22	29-Apr-22				
685774	BC - Reinstate the opening (hanging formwork) for cell 3 & 4	6 07-M	y-21 A 24-Mby-2	1 A 29 Apr 22	29 Apr 22				
68-5775	BC - Reinstate the opening (hanging formwork) for cell 1 8, 2	6 02-M	y-21 A 24-May-2	1 A 29-Apr-22	29-Apr-22				
68-5780	BC - Removal of sheetpile wall	12 14-M	V-21.A. 29-Jul-2	1 29-Apr-22	04-May-22	225			
68-5782	BC - Reinstate hard paving and related UU	12 30-1	#21 12-Aug-	1 05-May-22	19 May 22	225			
68-5784	BC - Reinstate planter wall in DSD compound	12 13-A	ig-21 26-Aug-	20-May-22	t 02:Jun-22	225			
68-5786	BC - Transplant 5 nos of tree in DSD compound	3 13-A	ig-21 16-Aug-	1 31-May-22	t 02-Jun-22	234			
68-5788	BC - Reinstate fending in DSD compound	6 27-A	102-Sep-	1 04-Jun-22	10-3un-22	225			
68-5790	BC - Complete reconstruction of Box Culvert	0	02-Sep-	1	10-Jun 22	222			
Section 3 - W	Vang Kwong Road Junction Improvement Works	12 25-44	121 A 30-00+2	A 26446/21	26-Mby/21	1	12		
	g Kwong Road Junction Improvement Works	6 25-4	121 A 30 Apr2	A 26-May-21	26-May-21		84	0	
TTM Stage 6	(Pavement Resurfacing and reinstatement works)	6 25-A	-21 A 30-Apr-2	A 26-May-21	26-May-21		8.0	0	
SD-6176	W0R-Stage6 - Remaining ketb; cross soad drop ketb installation; Final	6 25-4	-21 A 30-Apr-2	A 26-May-21	26 May 21		8.	0	
50-6178	Inspection; Final completion works WKR-Stape6 - Campletion of TTA Stape 6	0	30-Apr-2		26-May-21				
5D-6180	Completion of Section 3	0	30-40-2		26-May-21				
	Soft Landscape Works	12 26.4	-21 A 30-Apr2			_	4.4		
8-6126	LS - Soft Landscapie violes for Wang Rwang Road Junction Improvement						4.4		
			r21 A 30-Apr-2	IA 20-M0/-21		1	-94	0. 3	
	stablishment Works for Landscape Softworks under	J65 01-M			91-Mar 22				
	shment Works		r-21 A 30-Apri			-60			
8-6128	54 - Establishment Werks for Landscape Softworks under Section 3	365 01-M	y-21 A 30-Apr-	2 26-May-21	01-Mar 22	60	0.4		
	entilation and E&M adit and Ring Road Underpass								
Sch_6A Ventil	ation and E&M Adit Works	222 25-44	F21.A 21-Deci	1 21-Jun-21	10-Jan-22	34	34.	0	
Area Part 1D	1, 1D3, 181 & 182	222 25·M	r21 A 21-0eci	1 21-300-21	10-Jan-22	_14	34.	0	
-							_	an la	Data Pavilian Chicked #
Camerit Mil		wloon B	oute - Ka	i Tak Fa	st (Mont	h 27	Une	ate) (Rev21 - CSD)	Project ID: KTE-WP21_M27 20-4p-21 Submit C3D Programme Rav 18 TVY DX Baseline: 30-Apr-21 Month/Programme M24 TVY DX
Otical Ran	nanng Wak		Three M					ate) (Nevz1 - 03D)	Layout: KTE - 3 Months Rolling Programme 20 May 21 Submit CSD Programme Rev 19 TVY DX
Remaining	Werk					gran			Filter: TASK filters: 3 Months Rolling_1, KTE - Submission. 21-Jun-21 Submit CSD Programme Rev 20 TW 0X
									30-Un-21         Monthly/Pegnimme W26         1YY         DX           Page 13 of 18         20-Un-21         Suterial CSD Programme Rev 21         TYY         DX

	Activity Name	Orig Dur Stat	Finish	Late Stat	Late Pinish	Float	(Dely)	27 04 11 18 28	28 51 08 15 22 20 1 05	29 12 19 56	30 10 17	1 24 1 31 1 7	31 7 14 31
ELS Worl	ics	28 18-May-21/	07-Jui-21 A	11-Aug-21	11-Aug-21		0.00						
A - ELS SIA	ge 3	28 06468(21)	07.0421.0	11-Aug-71	(14697)		15.00						
A-6531	VA - Removal of KTW Interface wall (record)	28 18-May-21	07-3ui-21 A	11-Aug-21	11-Aug-21								
- RC Struct	tures	164 14-May-21 /	27-Nov-21	21-Jun-21	18-Nov-21	-8	26.00						
A Sertions	- Bey B+ (15m)	71 1446-214	24.440.21	2150-21	25.0621		7.00		man and the state of the state				
64-6562	VA-84 - Construit Base Slab	18 14-May-217	31-May-21 A	21-Sep-21	21-5cp-21		3.00						
64-6564	VA-84 - Construct RC Wals & Middle Slab	25 01-Jun-21 /	30-Jul-21	21-Sep-21	27-Sep-21	49	2.00						
6A-6566	VA-84 - Construct RC Walls & Top Slab	21 31-36-21		28-Sep-21	23-Oct-21	49	2.00						
	- Bay 85 (14.5m)	135 14-10-714		1	1540121								
6.4-6368	VA-BS - Construct Essee Stab	21 14-May-21/		21-hm-21	21-Jun-21		3.00						
							2.00						
64-6570	VA-85 - Construct RC Wals & Middle Slab	25 01-Jun-21 /		21-Jun-21	25-Jun-21	-29	2.00						
64-6571	VA-85 - Baddilling to strik L3/L4/L5	50 31-34+21	28-Sep-21	26-Jun-21	24-Aug-21	-29						-	
6A-6572	VA-85 - Construct RC Walls & Top Stab	22 295ep-21	26-Oct-21	25-00-21	18-Nov-21	20	2.00			_			
							3.99						
6A-6574	VA-86 - Construct Base Slab	23 14-May-21 /	31-May-21 A	25-Aug-21	25-Aug-21		3.00						
6A-6576	VA-86 - Construct RC Walls & Middle Slab	31 01-Jun-21 /	30-Jul-21 A	25-Aug-21	25-Aug-21		2.00		•				
6A-6577	VA-86 - Baddiling to strike L3/L4/L5	50 29 Sep 21	27-Nov-21	25-Aug-21	25-0d-21	-29				-			
VA Sections	- Bay 87 (22.3m) undernaath Ring Road 87	100 07-3621.0	210e11	11-645-31	THORAS .	(14)	1.00						
64-6598	VA-87 - Construct Base Slab	24 07-Jul-21 A	24-Aug-21 A	11-Aug-21	11-Aug-21		3.00						
6A-6600	VA-87- Construct RC Walls & Middle Sato	30 26-34-21	28-Aug-21	11-Aug-21	14-Sep 21	14	2.00						
6A-6602	VA-67 - Construct RC Walls & Top Slab (Include RR BI1 base slab)	45 30-Aug-21	23-0d-21	15-Sep-21	09-Nov-21	14	2.00						
A - Miscellar	neous	222 25-Mar-21 /	21-Dec-21	15-Sep-21	10-Jan-22	14	8.00						
VA - Stage 1	Miserilaneous worles	142 2544+217	15-Sariti	17-549-71	05-96-0-21		E.00						
64-660-1	VA - Movement Joint / Weterproofing, Stage 1	32 25-Mar-21 /	04 Aug-21	15-569-21	25-Sep 21	44	2.00						
64-6606	VA - Badefiling up to GL with additional concrete blk end wall, Stage 1.	39 26-344-21	08-Sep-21	15-Sep-21	02-Nov-21	44	4.00						
64-6607	VA - Haul Read preparation & diversion, stage 1 (end May 2021)	6 09-Sep-21		03-Nov-21	09-Nov-21	44		de si de 👕					
VA - Stage 3		• • • • • • • •	200pt		0210721								
64,6603	Vic cellannous works VA - Movement Joint / Yelarpoofing, Slage 3			Contraction of the	10-Jan-22		2.00						1 1
		50 25-Od-21		10-Nov-21		14		de er de					
	Road Underpass	132 25-May-21/		08-Sep-21	02-Mar-22		22.00		and the bar of the second			di el conte	
	I, 1D2, 1D3, 1D4, 1B1 & 1B2	132 25-May-21/		08-Sep-21	02-Mar-22		22.00						
R - ELS Worl		132 25-May-21 /		11-Sep-21	02-Mar-22	96	22.00						
							10-00						
4-6876	RR - Excavation Down to 1st walling & Strut; Install walling & Strut; 1D1-1D4	14 25-May-21 /	01-Jun-21 A	11-Sep-21	11-Sep-21		2.00						
4-6878	RR - Exavation Down to 2nd waling & Strut; Install waling & Strut; ID1-1D4	24 02-Jun-21 4	12-Jus-21 A	11-Sep-21	11-Sep-21		4.00						
4-6880	RR - Excavation Down to Hnal Formation Level, 101-104	7 13-Jui-21 A	24-Jui-21 A	28-Oct-21	28-Oct-21		2.00						
4-6880A	RR -stage 4 - rock replacement works (PMI-274)	10 24-Jui-21 A	07-Aug-21	28-Oct-21	10-Nov-21	78	2.00						
HK - ELS Sing	ge 5.	105 17-34-21.6	10-0621	11000	0.766.97	-	12.00						
4-6728	RR + Install Coffection - Stage 5	22 17-Jul-21 A	30-Aug-21	11-Sep-21	20-0d:21	41	3.00						
							10				Data	Revision	Childed /
Dament Mile	Central K	owloon Rou	te - Kai '	Tak Fas	t (Mont	h 27 I	Indat	) (Rev21 - CSD)	Project ID: KTE-WP21_M27 Baseline:			ID Programmi Rav 18 rogramme M24	TYY D
Officei Rem	naning Wark		ree Mon					()	Layout: KTE - 3 Months Rolling Programme	12 (21 (2	20-May/21 Submit CS	© Programme Rev 19 togramme M25	TW D
Bemaining	Werk.								Filter: TASK filters: 3 Months Rolling_1, KTE - Sub	mission.	21-Jun-21 Submit CS	D Programme Ray 29	TYY D
									Page 14 of 18			ogramme M26 20 Programme Rev 21	711 D

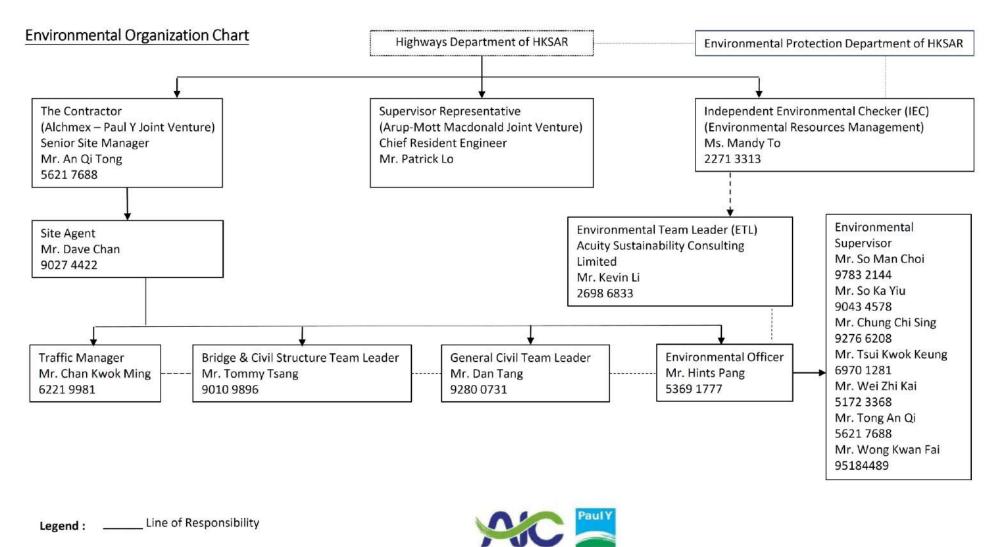
D	Activity Name	Orig Dur	Sat.	Firish	Late Stat	Lote Finish	Total Float	TRA (Dey)	27 27	- AL 1 - M	August 28		Saptembe 29 05 12	- 		October 30	L a L	10	31	
4-6732	RR - Excavation Down to 1st walking & Strut; Install walking & Strut; 1B1&1B2	17	31-Aug-21	18-Sep-21	21-0d-21	09-Nov-21	41	4.00	10 23	1 61 03	15 24	29	00 12	107 20	63	10 17	e .	31 W	14 3	10
46734	RR - Excavation Down to Rnal Formation Lavel, 1818/182	21	20.5ep-21	16-0d-21	10-Nov-21	03-Dec-21	41	4.00						0	-	_				
4-6736	RR - Excavation Down to Formation Level (Baddilling) (RR), 1616/182 (Open	6	25-Oct-21	30-0d-21	24-Feb-22	02-Mar-22	96	1.00												
RR - Box Sect	ut) tions, Pump Sump & FS Plant Room	38	26-3:1-21	07-Sep-21	(6-Sep-21	25-0d-21	38	0.00												
RR - Bay 87	(5011 CH0+193.3 to 0+211.6) (nt-grade) (RU1)		26-33-21	67 de - 21	(K-5p-2)	2540621		2.50												
4-6775	RR-RU1 - Construct Side wal / Internal wal	38	26-3/-21	07-Sep-21	(8-Sa)-21	25-0d-21	38		_				1							
ction 10 - I	Footbridge, E&M Installation and Miscellaneous Wc	146 3	ti-ka-21 A	20-04-21	22-#pr-21	09-34-31	- 64	16.00	terre ter											
	in Span, Staricase A & B	5 2	6-Apr-21-A	30-Ap-21 A	22-Apr-21	22-Apr-21		0.00												
	nts, Pilecaps & Piers	2 2	6-Apr-21 A	27-Apr-21 A		22-Apr-21		0.00												
FB - KITEC Po	and a second			27-Apr-21 A		22-Apr-21		0.00									1			
AUUT 0.542				Link of LA		() desired a		2010												
7-7100	A-SA2 - Baddlling		6. Ano 21 A	27-A0+21 A	22-Ap+21	22-Apr-21		0.00									1			
								0.00												
8 - Miscellan			IU-ADIVIT A	30-Apr21 A	22-401-21	22-Apr-21		0.00												
7-7176	RB - Main Bickge Completion (Open to Public)	0		30-Apr-21 A		22-Apr-21														
	on Exisitng Subway KS-20		5-May-21 A		22-Apr-21	09-344-21	-85	16.00												
S-20 - ELS fc	or Demolition Works	75 2	5-May-21 A	23-Aug-21	22-Apr-21	12-May-21	-85	2.00												
77302	KS2D - Tital pits / Survery	6 2	5-May-21 A	31-Mby 21 A	22 Apr 21	22.Apr-21		0.00												
-7300	TTA - Stage 1 (After Footbridge open to public)	0 2	S-May-21 A		22-Apr-21															
7-7304	KS20 - Erect Hoarding endose the Works Area	14 0	11-3cm-21 A	12-34-21 A	22-Apr-21	22-Apr-21		2.00												
7-7306	KS20 - UU detection / Trial hole / Utilities diversion / Protection of Existing Unities	30 0	11-Jun-21 A	08-Jul-21 A	22-Apr-21	22-Apr-21		0.00												
7-7308	KS20 - Decommissioning existing services (u/g pump rooms)	6 1	8-Jun-21 A	24-Jun-21 A	22-Apr-21	22-Apr-21		0.00												
7-7301	TTA - Stage1 (After implement of pre-stage)	0	23-Aug-21		12-May-21		-65										1			
S-20 - Demo	olistion / Filling Works	72	26-3:4-21	20-Oct-21	22-Apr-21	09-34-21	-65	14.00												
Kai Fuk Road	(WB)	72	26-34-21	20-Oct-21	22-Apr-21	09.3421	65	14.00									1			
7-7324	KS20 - Bridework wall for Subway	14	26-3:4-21	10-Aug-21	22-Apr-21	08-May-21	-77	2.00	-	_										
7-7326	KS20 - Foamed concrete infil / Non-stvink grout	6	11-Aug-21	17-Aug-21	10-May-21	15-May-21	-77	3.00												
7-7328	KS20 - Excevate down to subway roof level		23-Aug-21	11-Sep-21	12-May-21	02-3un-21	-85	3.00					_							
7-7330	KS20 - Demolish edg subway & ramp (WB)		27 Aug 21	29-Sap 21	17-May-21	19-Jun-21	-85	4.00				Distantion of the		_						
7-7332	KS20 - General fill to formation level / Utilities diversion / Laying inside subway		30-Sep-21	20-0:6-21	21-Jun-21	09-3:4-21	-85	2.00							-					
AL SPACE	Structure of Bridge CKRE		Zene on A	(5-56-27	(9-049-20	19-1m-21		22.00												
					09-Nov-20	09-Nov-20		4.00												
-7410	ORE - Pre-drilling over Kal Tak River for KS-ORRE-2 (1 nr)				09-Nov-20 09-Nov-20	09-Nov-20		2.00	a la contra de la co							uni un			-	
-7410																				
	CVRE - Pre-drilling over Kai Tak River for KS-CURE-1 (1 nr)			07-Jun-21 A		09-Nov-20		2.00	8											
	ge CKRE Works		7-May-21 A	05-Jan-22	27-Nov-20	29-Jun-21	-156	23.00												
KRE - Piling			7-May-21 A		27-Nov-20	25-Jun 21	-159	12.00												
Piling Works -	- Pier P-K5-CKRE	78	02-04-21	05-Jan-22	12-Jan-21	25-3un-21	-159	8.00												
3.10-7514	ORRE - Bored Piles for KS-ORRE-2 (1 m)	36	02-00-21	13-Nov-21	12-Jan-21	01-Mar-21	-210	4.00							-	-				
3.10-7518	CKRE - KS-CKRE-2 Proof chilling & Piles testing	24	15-110-21	11-Oec-21	28-May-21	25-Jun-21	-141	0.00	4		-					1				-
Caneri Mik	istoru								100 B	Project ID	KTE-WP21_M27	- 00 63			Data		Fever		Chaded	T
Actual Wor	n Central Ko	owloon				t (Mont			CSD)	Baseline: Layout KTI	E - 3 Months Rol	ing Programm			20-Apr-21 30-Apr-21 20-May/21 31-May/21	Submit CS	© Programma Ra ognamme M24 © Programme Ra ognamme M25		TYY TYY TYY TYY	XXXX
in in in its in the internation of the international sector of the international secto	PRETS.							~~~		Filter: TASH Page 15 of	Cfilters: 3 Month	s Holling_1, KT	E - Submissio	n.	21-Jun-21 30-Jun-21 20-Jul-21	Submit CS Monthly Pr	D Programme Re ognimme M26 D Programme Re		TYY TYY TYY	000

1D	Acilvity Name	Orig Dar Start	Firish	Late Stat	Lote Finish	Totat Float	T/ (De	A AAY 0 27 1 27 1 A 1 11 1 27 1 A 1 12		August 28	1 30 1	Sapter 29	ber isa i	8 8	Cesso 30	17		NEA 1 AT	amber 31	84 T
3.10-7506	CKRE - Bored Piles for K5-CKRE-1 (1 nr)	36 22-900-21	05-Jan-22	09-Mar-21	23-Apr-21	-210	4.(	0	0	10. 22	28	W 12	्व	<i>al</i> (0	10	ii e		W		-
Piling Works	- ABUT A-K4-CKRE	98 17-May-21 A	21-Aug-21	27-Nov-20	10-Apr-21	-110	4.6	0												
3.10-7524	CRPE - Bored Piles for ABUT A-K4-CRE-2 (1 nr)	36 17-May-21.A	19-Jun-21 A	27-Nov-20	27-Nov-20		4.0	0												
3.10-7526	CKRE - ABUT A-K4-CKRE Proof drilling & Piles testing	24 26-34-21	21-Aug-21	10-Mar-21	10-Apr-21	-110	0.0	0		-										
CKRE - Pile Ca	aps, Pier / Abutment	155 25-May-21 A	25-Nov-21	12-Apr-21	29-Jun-21	-125	11.0	0												
Abutment A-I	K1-CKRE	109 25-May-21 A	02-0:0-21	20-Apr-21	29-Jun-21	-79	11.6	0												
3.10-7530	CIRE - Excavation Down to Formation Level A-K1-ORRE	14 25-May-21 A	26-Jul-21	20-Apr-21	20-Apr-21	-79	2.0	0												
3.10-7532	CKRE - Prepare pile head (4nrs) A-K1-CKRE	6 27-34/21	15-QUA-SD	21-Apr-21	27-Apr-21	-79	4.0	0	-											
3.10-7534	CIRE - Construct Abutment Base A-K1-CKRE	16 03-Aug-21	20-Aug-21	28-Apr-21	17-May-21	-79	L	0		-										
3.10-7536	CKRE - Construct Abutment A-K1-CKRE	26 21-Aug-21	20-Sep-21	18-May-21	18-Jun-21	-79	4.0	0		-		_								
3.10-7538	CIPE - A-K1-CKRE Install Permeate Membrane and Back	fil 9 21.5ep-21	02-0d-21	19-Jun-21	29-Jun-21	-79	0.0	0			1		-	_			1			
Abutment A-I	K4-CKRE	20 04-Nov-21	25-Nov-21	12-Apr-21	05-May 21	170	0.0	0												
3.10-7568	CRRE - Prepare pile head (4ns) A+X4-ORE	20 04-Nov-21	26-Nov-21	12-Apr-21	05-May-21	-170	0.0	0										_	_	-
Section 12	Underpass S21	233 16-A0-21 A	06stans22	19404-20	16-0(52)	:67	56.0	· · · · · · · · · · · · · · · · · · ·												
	toad Underpass S21	233 16-40+21 A		29-Oct-20	15-0(721	67	56.0													
521 - ELS Wo	A COMPANY AND A	41 29-Apr-21 A			03-Nov-20		0.0										1			
	ction (CH143.981 to CH205.700)	20 12-Mar-21 A			29-04-20		0.0	이 아이									1			
7-7947A	S21 - Rock & subbase replacement (PMI-XXX)				29-0d-20															
		20 12-May-21 A 4 29-Apr-21 A			03-Nev-20		0.0	In a second second second									-			
	gh Sections - North (CH205.700 to CH321.110)							0												
4-7935	S21 - Plate load test (P4) (at Bay 3-2)	4 29-Apr-21 A			03-Nov-20		24.4													
521 - RC Stru		221 16-Api-21 A		29-00-20	30-Sep-21		26.0													
	gh Sections - South (CH000 to CH143.981)	109 16-Apr21 A		01-Jun-21	30-Sep-21	45	3.(	0												
											1									
4-7767	S21-B2-1 - U3S Construct:Side Wall (2nd pour)	39 16-Apr-21 A		01-Jun-21	01-Jun-21						1						8			
4-7768	521-82-1 - U35 Construct:Side Wall (final pour)	24 08-34-21 A	05-Aug-21	01-Jun-21	11-Jun-21	-45	3.0	0			-									
								6												
4-7769	S21-82-2 - U3S Construct Side Wall (final pour)	28 25-May-21 A	14-3ui-21 A	01-Jun-Z1	01-Jun-21															
523 - Ray (12	2-3 - U-Trough Type III (CHILLAR: 000)							0									1			
4-7781	523-82-3 - U35 Construct Side Wall (Final pour)	29 19-Jun-21 A	14-3ui-21 A	01-Jun-21	01-Jun-21						-									
521 (lay 0)	2-10 - At-Grade Slab (CH009.376 to 000)	42 - 26 <del>-</del> 3693	07 mag 21	16-98-31	10-669-21			o												
4-7812	S21-82-10 - Construct At Grade slab	12 26-3ul-21	07-Aug-21	16-Sep-21	30-Sep-21	45	0.0	0	20											
S21 - Box Sec	ctions (CH143.981 to CH205.700)	169 25-May-21 A	13-Dec-21	05-May-21	23-5ep-21	-67	13.0	0												
521 - Nay 61	I-2 - Box Section (CH159.5 to 175)	135 TTA621 A	Discus 1	rs-May2L	23.5071	-														
4-7734	S21-B1-2 Construct Bene Slab	30 12-Jul-21 A	17-Aug-21	05-May-21	28-May-21	-67	1.	0												
4-7736	S21-B1-2 Construct External Walls (1st pour)	26 18-Aug-21	16-Sep-21	29-May-21	29-Jun-21	67	2.(	0		-	-	-								
4-4737	521-B1-2 Construct External Walls (final pour)	34 17.5ep.21	29-0d-21	05-3ul-21	13 Aug 21	63					1	1.0	-	_	-	_	-			
+-7738	S21-B1-2 Construct Top Slab	34 30-0±-21	08-Dec-21	14-Aug-21	23-Sep-21	-63	2.0	0									-		_	_
521 - Roy M1	- 3 - Box Section (CH175 to 190.5)	100 30.8651.6	20.0021	22 (10) (1)	23.5(p.21		51													
🛡 Coment Mil							_		Project ID	KTE-WP21_M27					Data p-21 Su	bml CSD Prog	Revison arme Rev 1		Choded	3 7
Adual Wor Ditical Pan Citical Pan Remaining	nahing Wark	Central Kowloon Rout Thr	e - Kai 1 ree Mon		Contraction of the second			ate) (Rev21 - CSD)		E - 3 Months Roll K filters: 3 Months			ión.	30A 20N 31-N 21-J	pr-21 Mo lay21 Su lay21 Mo in-21 Su	onthly Programm Itemit CSD Programm Inthly Programm Itemit CSD Programm	e M24 amme Rev 15 e M25 amme Rev 25		TW TW TW TW	0000
									Page 16 p	18				30-3	m-21 Mo 421 Su	onthly Programm Jomit CSD Progr	e M25 arrane Rey 2	-	TYY	1

	Acilyity Name	Orig Dur	Sat	Finish	Late Star	Late Finish	Total Float	(Day)	27 04 11 18 25	23	29	30	31	-
4-7746	S21-B1-3 Construct Base Slab	17	30-3un-21 A	26-Jul-21	22-Jun-21	22-Jun-21	-28	1.00		vi us is 22 29 05	12 19 28	00 10 17 28	ar w 14 21	-
4-7748	521-81-3 Construct External Walls (1st pour)	24	27-34-21	23-Aug-21	23-3un-21	21-3.421	-28	2.00						
4-7749	S21-B1-3 Construct External Walls (Final pour)	24	24-Aug-21	20-Sep-21	ZZ-3ul-21	18-Aug-21	-28	-		King and a second s	-			
4-7750	SZ1-B1-3 Construct Top Sido	30	21-Sep-21	28-0d-21	19-Aug-21	23-Sep-21	-28	2.00						
\$21 - Roy 81-	-4 - Box Section (C11190.5 to 265.7)	160	25445-21 A	13-Ged1	12 70-21	23-540-71	- 47	310						
4-7758	S21-B1-4 Construct Base Slab	24	25-May-21.A	29-Jun-21 A	12-Jun-21	12-Jun-21		1.00						
4-7760	S21-B1-4 Construct External Walls (1st pour)	28	29-Jun-21 A	05-Od-21	12-Jun-21	16-34-21	67	1.00	Sec					
4-7761	S21-81-4 Construct External Walls (Final pour)	28	06-Od-21	08-Nov-21	17-34-21	18-Aug-21	-67	15235						
4-7762	S21-81-4 Construct Top Siets		09-New-21	13-Dec-21	19-Aug-21	23-Sep-21	67	1.00					-	
	h Sections - North (CH205.700 to CH354.957)	10	29-Apr-21 A	20-040-21	29-Oct-20	30-Sep-21	-67	10.00						
521 - U- ITOUg		193	23-46-21-4	2000021	1900-10	30/30/21	-07	10.00						
221 - 839 83-	-1 - U-Trough Type 337 (CH305.7 to 223)		STREET	all-tored I.	10005-10	Joberst								
4-7818	S21-83-1 - Mass concrete fill upto formation level underneath S3 (R2.78mPD)		26-34-21	29-301-21	29-Oct-20	02-Nov-20	-214	1.00						
4-7820	521-83-1 - Construct Base sab	14	23-Aug-21	07-Sep-21	03-Nov-20	18-Nov-20	-234	1.00						
4-7823	521-63-1 - Construct Side Walls (1st pour)	24	08-5ep-21	07-0tt-21	19-Nov-20	16-Dec-20	-234							
4-7825	S21-83-1 - Construct Side Walls (2nd pour)	32	06-0 <del>8</del> -21	15-Nov-21	17-Dec-20	26-Jan-21	-234					C) III III III III III III III III III I		
4-7824	521-83-1 - Construct Side Walls (final pour)	30	15-Nov-21	20-Dec-21	26-Aug-21	30-Sep-21	-57	1.00						-
521 - Bey 10	-2 - U-Trough Type III (CH223.0 to 240.0)	166	29-(fac21) A	00-20011	26.1722	10.60.21	- 54	4.00						
4-7830	S21-B3-2 - Construct Base stab	14	25-May-21 A	07-Jun-21 A	24-30-21	24-304-21		2.00						
4-7831	S21-B3-2 - Construct Side Walk (1st pour)	28	06-Oct-21	08-Nov-21	24-304-21	25-Aug-21	-61						-	
4-7836	521-83-2 - Construct Side Wells (final pour)	27	09-Nov-21	09-040-21	30-Aug-21	30-Sep-21	-58	2.00						-
521 - May #3-	-3 - U-Trough Type II (CH240.0 to 251.3) Part 38	1am	25 Apr 11 A	11-596-01	20:042-21	101017/1	01	1.00						
4-7834	S21-83-3 - Construct Base skib	14	29-Apr-21 A	11-May-21 A	26-Aug-21	26-Aug-21		1.00						
4-7835	521-63-3 - Construct Side Wells (1st pour)		25-May-21 A			26-Aug-21		HARRE						
4-7844	521-63-3 - Construct Side Walls (final pour)		09-Nov-21	13 Dec 21	26 Aug-21	30 Sep 21	61	0.00						1
	9 - At Grade Slab Part 3E (CH1331.11 to 35K.957) Part 3E		26-31/1	10 000 01	corag ci	10-colt		0.00						
4-7968	521-83-9 - Construct At Grade slab		26-34-21	07-Aug-21	16-Sep-21	30-Sep-21	45	2.00						
				And they are				1996						
	neous Works		07-May-21 A	06-Jan-22	01-Jun-21	16-0d-21	-67							
	oofing and Backfilling Works		07-May-21 A		01-Jun-21	15-Oct-21		30.00	5 de 18 de -					
								10.09						
4-7948	S21 - Waterproofing / Movement Joint / Masonry Wall (U-Trough Section - South)	48	26-304-21	18-Sep-21	01-Jun-21	28-3.4-21	-45		-					
4-7942	S21 - Backfilling up to GL. (U-Trough Section - South)	48	16-Aug-21	12-0d-21	23-Jun-21	18-Aug-21	-45	6.00		Constant of the local division of the local	and the second			
521 Box Sec	cliom (CH143.981 to CH205.700)	195	(C.Phiell A	29-0621	01: N/; 21	14-04-21		13.00						
4-7873	S21 - Baddilling up to GL/ set up for haul road at B1-1 (end June)	20	07-May-21 A	26-Jul-21	30-Sep-21	30-Sep-21	57		-					
4-7870	S21 - Waterproofing / Movement Joint / Masonry Wall (Box Section)	48	26-0xt-21	20-Dec-21	05-Aug-21	30-Sep-21	-67	6.00						-
4-7872	521 - Baddfiling up to GL. (Box Section)	48	02469-21	29-Dec-21	19-Aug-21	16-0d-21	61	6.00						-
521 · U+Troo	gh Sections - Marth (CH205.700 to CH331.110)	-0	(600022	00-380-23	21-0.12-21	19-045-21	67	11.00						
4-7946	S21 - Waterproofing / Movement Joint / Masonry Wall (U-Trough Section -	36	16-Nov-21	29-Dec-21	26-Aug-21	08-Od-21	-67	4.00					_	
4-7944	North) S21 + Badefilling up to GL. (U-Trough Section - North)	36	23-Nov-21	06-Jan-22	02-5ep-21	16/0¢/21	-67	4.00					-	-
🛡 Carrent Mile	a80ma					1				Project ID: KTE-WP21_M27		Data Revision		
Actual Work Critical Rama Remaining V	Central K	owloo				t (Monti ing Prog			e) (Rev21 - CSD)	Project ID: KTE-W21_M27 Baseline: Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - 3	ubmission.	25Ap-21 Submit CSD Programme R4 30Ap-21 Monthy Programme M24 23May-21 Submit CSD Programme R4 31-May-21 Monthy Programme M25 21-Jin-21 Submit CSD Programme M25 30-Jin-21 Monthy Programme M26	71Y 0 v 19 71Y 0 71Y 0 71Y 0 v 29 71Y 0	8888888

ch_10 Sleeve pip DCS-West Section 10-8470 10-8472	eve pipes for District Cooling System (Subject to bes for DCS (Keil Taik River West) n A (39m) DSSWI A - Instal 2nd liver waing and stut.	149	Distance A				Float	(Day)	27 04 11 16 19	51 D4	28	29 05	29	1 28	63 10	17 24	31 07	1 14	71 1
DCS-West Section 10-8470 10-8472	n A (39m)	149		05080-22.	27-1404-20	2100021		83.00	<u>. y 11 10 2</u>		10. 22		19. J. GT		~ 1 M	11 1.6			-1
10-8470			26-Apr-21 A	23-04-21	03-Feb-21	23-Dec-21	52	56.00											
10-8472	DCS/Wi A - Install 2nd layer wains and stat	96	26-Apr-21 A	19-Aug-21	03-Feb-21	23-Dec-21	105	17.00											
eserer (	nander (2011) in team record of a constraint of a second	6	26-Apr-21 A	A 15-96M-E0	03-Feb-21	03-Feb-21		2.00											
	DCS(W)_A - Excevation down to formation level + lagging plate + removal of unchasted seavral	13	04-May-21 A	18-Mby-21 A	63-Fab-21	03-Feb-21		2.00											
	Uncharee seaviol DCS(W)_A - Install permanent seavator pipes 2x1400 (L=39m) (PMI-0146)	13	20-May-21 A	03-Jun-21 A	03-Feb-21	03- <del>Feb</del> -21		6.00											
10-8476	DCS(W)_A - Backfilling upto formation level	40	25-May-21 A	10-Aug-21	03-Feb-21	25-Feb-21	-134	4.00	-	-									
10-8478	DCS(W)_A - Reinstatement (Pavement / fending / etc.)	8	11-Aug-21	19-Aug-21	15-Oec-21	23-Dec-21	105	3.00	(										
DCS-West Section	n B (49m)	120	11-May-21 A	02-Oct-21	26-Feb-21	10-May-21	-120	15.00											
10-8494	DCS(W)_B - Install sheetpiles	12	11-May-21 A	25-May-21 A	26-Feb-21	26-Feb-21		2.00											
10-8489	DCS(W), B - Exavation down to formation level	30	25-May-21 A	29-34-21	26-Feb-21	02-Mar-21	-120	5.00	_	(3)									
	DCS(W) B - Install permanent seavator pipes 2x1400 ID (L=50m)		30-364-21	31 Aug-21	03-Mar-21	08-Apr-21	120	6.00		_									
	(PMI-01-46) DCS(W), B - Back/Illing upto formation level	26	01-5ep-21	02-03-21	09-00-21	10-May-21	+120	2.00	he diversiti milimere da					-			1722	1	
DCS-West Section			25-May-21 A		12-May-21	276ep-21	-21	24.00				11							
	DCS(V0_C + Install 1st layer waling and strut		25-May 21 A		12-May-21	17-May 21		2.00											
	DCS(W), C - Removal of unchated structures / materials + 2m top layer of soil		25-Mar-21 A	in the second second	24-34-21	24-34-21		2.00											
	DCS(W)_C - Excevation 500mm down 2md layer of sbut + lagging plate		01-Jun-21 A	1111111111	0.00000000	12-May-21	_	2.00											
	DCS(W)_C - Install 2nd layer walking and strut		10-Jun-21 A	17-Jun-21 A	12-May-21	12-May-21		2.00											
	DCS(W)_C - Construct new Manhole SWHK36 & demoksh existing M/H		18-3un-21 A		24-3.4-21	06-Aup-21	3	6.00											
										1									
(25.267.83)	DCS(W)_C - Excevation down to formation level + lagging plate + removal of unchanted seavoil		18-Jun-21 A	27-Jul-21	12-May-21	13-May-21	-61	2.00					-						
	DCS(W)_C - Install permanent seawater pipes 2x1400 (L=50m) (PMI-0146)		01-Sep-21	20-Sep-21	07-Aug-21	26-Aug-21	-21	6.00				1	in the second						
	DCS(W)_C - Backfilling upto formation level		21-5ep-21	23-Oct-21	27-Aug-21	275ep21	-21	2.00							- masin -				
ch_10 Sleeve pip	bes for DCS (Kai Tak River East)	160	16-Jun-21 A	05-Jan-22	27-Nov-20	07-Aug-21	-123	27.00											
CS-East Portion	1 (approx 37.5m)	148	16-Jun-21 A	18-Dec-21	27-Nov-20	05-May-21	-189	21.00											
10-8514	DCS(E) - Instal sheetpile (L=96 im) (1st stage)	7	16-Jun-21 A	23-Jun-21 A	27-Nov-20	27-Nov-20		2.00											
10-8514A	DCS(E)- Undhatted u/g obstruction (EW-143) (discuss for pre-boring scheme; assumed 28 days)	28	24-Jun-21 A	28-Jul-21	27-Nov-20	30-Nov-20	-189	3.00	-										
10-85148	DCS(E)- additional pre-boring to overcome uncharted u/g obstruction (EW-143) ; assumed 18 days	18	29-Jul-21	18-Aug-21	01-Dec-20	21-Dec-20	-189				-								
10-8514C	DCS(E) - Instal sheetpile (L=96 Im) (after pre-boring to overcome obstruction; assumed)	15	19-Aug-21	04-Sep-21	22-Dec-20	11-Jan-21	-189	2.00				-					1		
	DCS(E) - Dewatering system installation (TBA subject to design)	18	06.5ep-21	27-Sep-21	12-Jan-21	01-Feb-21	-189	2.00				-	_	-					
	DCS(E) - Excavation down to formation level (Part A for Pile caps) ind walling & shut	30	285cp-21	03-Nov-21	62-Feb-21	15-Mar-21	-189	3.00						-	_				
10-8520	DCS(E) - Excevation down to formation level (Part B for DCS) ind wailing &	15	04-Nov-21	20-Nov-21	16-Mar-21	01-Apr-21	-189	3.00									_	-	
	strut DCS(E) - Install slaeve pipes 3x1800 ID (L=37.5m)	24	22-809-21	18-Dec-21	07-Apr-21	05-May-21	-189	6.00											_
DCS-East Portion	2 (approx 37.5m)	99	06-Sep-21	05-lan-22	28-Apr-21	07-Aug-21	-123	6.00											
	DCS(E) - Instal sheetple (L=95 im)	22	05-Sep-21	02-0d-21	28-Apr-21	25-May-21	-108	2.00						-					
	DCS(E) - Dewataring system installation (TBA subject to design)	26		03-Nov-21	26-May-21	25-Jun-21	-106	2.00							_				
10-8530		36	22-Nov-21	05-Jan-22	26-Jun-21	07-Aug-21	-123	2.90									1000		
	DCS(E) - Excavation down to formation level ind wailing & strut.																		

# Appendix C Project Organization Chart



----- Line of Communication

変 銘 - 1 米 華 聯 営 Alchmex - Paul Y Joint Venture

# Appendix D Dust Event-Action Plan (EAP)

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEV	EL			
1.Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
2.Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
LIMIT LEVEL				
1.Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC</li> </ol>

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
	<ul> <li>EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ul>	<ol> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	3. Ensure remedial measures properly implemented.	<ul> <li>within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>4. Amend proposal if appropriate.</li> </ul>
2.Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Arrange meeting with IEC and ER to discuss the remedial actions to be taken;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Ensure remedial measures properly implemented;</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Resubmit proposals if problem still not under control;</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>

Note:

ET – Environmental Team

ER – Engineer's Representative

IEC – Independent Environmental Checker

Acuity Sustainability Consulting Ltd.

# Appendix E Noise Event-Action Plan (EAP)

EVENT		ACTIO	DN	
	ET	IEC	ER	CONTRACTOR
Action Level	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Notify IEC and Contractor;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the analysed results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC;</li> <li>Implement noise mitigation proposals.</li> </ol>

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

# Appendix F Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref.	EM&A Log 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	Implementation Status
			Constru	ction Dust Impact				
\$4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	<ul> <li>Implemented and rectified after observation</li> </ul>
\$4.3.10	D2	<ul> <li>Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m<sup>2</sup> to achieve the dust removal efficiency.</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	Implemented
\$4.3.10	D3	<ul> <li>Proper watering at exposed spoil should be undertaken throughout the construction phase;</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>extended beyond the pedestrian barriers, fencing or traffic cones;</li> <li>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.</li> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <li>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;</li> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
\$4.3.10		<ul> <li>continuously;</li> <li>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;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> <li>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</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> <li>Implement regular dust monitoring under EM&amp;A programme during the construction stage.</li> </ul>	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	• Implemented
			Construct	tion Noise (Airborn	e)			

EIA Ref.	EM&A Log 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	Implementation Status
S5.4.1	N1	<ul> <li>Implement the following good site practices:</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
\$5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of 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	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM-EIAO	Implemented
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	Implemented

EIA Ref.	EM&A Log 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	Implementation Status
S6.9.1.1	W1	<ul> <li>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:</li> <li>Construction Runoff <ul> <li>At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works 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;</li> <li>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;</li> <li>The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under</li> </ul> </li> </ul>	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction;</li> <li>All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means;</li> <li>The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows;</li> <li>All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;</li> <li>Measures should be taken to minimize the ingress</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they 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;</li> <li>Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 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;</li> <li>Manholes should always be adequately 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;</li> <li>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 summarized 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;</li> <li>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 site wheel washing</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The 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;</li> <li>Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain;</li> <li>Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts;</li> <li>All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within 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;</li> <li>Adopt best management practices;</li> <li>All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
		season (April to September) as far as practicable.						
S6.9.1.2	W2	<ul> <li>Tunneling Works and Underground Works</li> <li>Cut-&amp;-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.</li> <li>Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge;</li> <li>The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater;</li> <li>Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.</li> </ul>	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-DSS</li> <li>TM-EIAO</li> </ul>	• N/A

EIA Ref.	EM&A Log 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	Implementation Status
\$6.9.1.3	W3	<ul> <li>Sewage Effluent</li> <li>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.</li> </ul>	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> </ul>	Implemented
\$6.9.1.5	W4	<ul> <li>Groundwater from Potential Contaminated Area:</li> <li>No direct discharge of groundwater from contaminated areas should be adopted.</li> <li>A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly</li> </ul>	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> <li>TM-EIAO</li> </ul>	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers.</li> <li>If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
		interceptor.						
\$6.9.1.6		<ul> <li>Accidental Spillage</li> <li>In order to prevent accidental spillage of chemicals, the following is recommended:</li> <li>All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains;</li> <li>The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.</li> <li>Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	• Implemented
			Waste Manage	ement (Construction	Waste)			
\$7.4.1	WM1	<ul> <li>On-site sorting of C&amp;D material</li> <li>Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated</li> </ul>	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• N/A

EIA Ref.	EM&A Log 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	Implementation Status
		stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.						
S7.5.1	WM2	<ul> <li>Construction and Demolition Material</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> </ul>	Good site practice to minimize 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 stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> </ul>						
\$7.5.1	WM3	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage;</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the</li> </ul>	generation and recycle the C&D materials as far as practicable so as to reduce the	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		sites should be considered for such segregation and storage.						
\$7.5.1	WM4	<ul> <li><u>Excavated Contaminated Soils</u></li> <li>Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	РВН4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>GN/GM for land contamination</li> </ul>	Implemented
\$7.5.1	WM5	<ul> <li>Land-based Sediment</li> <li>All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location;</li> <li>All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the sea except at the</li> </ul>	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
		<ul> <li>approved locations;</li> <li>Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.</li> <li>The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers;</li> <li>The Contractors shall comply with the conditions in the dumping licence.</li> <li>All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material;</li> <li>The material shall be placed into the disposal pit by bottom dumping;</li> <li>Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site;</li> <li>Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.</li> <li>For Type 3 special disposal treatment, sealing of</li> </ul>						

EIA Ref.	EM&A Log 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	Implementation Status
		contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						
S7.5.1	WM6	<ul> <li><u>Chemical Waste</u></li> <li>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes;</li> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation;</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	• Implemented

EIA Ref.	EM&A Log 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	Implementation Status
\$7.5.1	WM7	<ul> <li>capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated;</li> <li>Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.</li> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes;</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> <li>Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible;</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	• Implemented and rectified after observation

EIA Ref.	EM&A Log 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	Implementation Status
		collection. Participation in a local collection scheme should be considered by the Contractor.						
	•		Land Contamir	nation			·	
S8.9 & Appendix 8.4	LC2	<ul> <li>Excavation of the Contaminated Soil</li> <li>Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant.</li> <li>The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.</li> <li>The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	РВН4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>Guidance Notes for Contaminated Land Assessment and Remediation</li> <li>Guidance Manual for Use of Risk-Based</li> </ul>	• N/A
S8.9 & Appendix 8.4	LC3	• Following completion of the excavation to the specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below:					Remediation Goals (RBRGs) for Contaminated Land Management	• N/A

#### Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Reco	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	Implementation Status
		Locations	Testing	Acceptance						
			requirement	Criteria						
		PBH4	PCBs	RBRGs (Public						
				Park)						
			If the results of analysis below the RBRGs (Public Park), no further excavation will be required.							
		noncompliance excavation sh vertically an location(s) of acceptance of conducted for excavation, sampling and all contamina	mpling and compliance testing should continue until I contaminated materials are removed and should be apervised by a Land Contamination Specialist.							
Appendix 8.4	LC4	clean-up sha endorsement construction, construction,	all be prepared and t prior to the con /development works	emonstrate adequate submitted to EPD for nmencement of any s within the sites. No s shall be carried out RR by EPD.						• N/A
						Hazard to Life				
S9.18	H8	healthy, expo records. Th	erienced and have e driver should ho	should be physically e good safe driving old a proper driving ort truck. Dedicated	-	Contractor	Works areas at which explosives would be	Construction stage	-	• N/A

### Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log 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	Implementation Status
		training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.			used			
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
			Land	dscape & Visual				
S10.10.1 Table 10.11	LV3	<ul> <li><u>Good Site Management</u></li> <li>Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.</li> <li>Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	<ul> <li><u>Screen Hoarding</u></li> <li>Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV5	Lighting Control during Construction           • All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented

### Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log 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	Implementation Status
		The Contractor shall consider other security measures, which shall minimize the visual impacts.						
S10.10.1 Table 10.11	LV6	<ul> <li>Erosion Control</li> <li>The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.</li> </ul>	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV7	<ul> <li>Tree Protection &amp; Preservation</li> <li>Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.</li> </ul>	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	<ul> <li>'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>Latest recommended horticultural practices from GLTM Section, DEVB</li> </ul>	• Implemented

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EIA Ref.	EM&A Log 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	Implementation Status
\$10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> • For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	<ul> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>ETWB TCW 2/2004</li> </ul>	• N/A
S10.10.1 Table 10.11	LV9	<ul> <li><u>Compensatory Planting</u></li> <li>For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006.</li> <li>Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works</li> </ul>	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	<ul> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>ETWB TCW 2/2004</li> </ul>	• N/A

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EIA Ref.	EM&A Log 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	Implementation Status
		and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process.						
S10.10.1 Table 10.11	LV10	<ul> <li>Screen Planting</li> <li>Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.</li> </ul>	•	Contractor	Within Project Site	Construction Phase	<ul> <li>Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	• N/A
S10.10.1 Table 10.11	LV12	Reinstatement • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	• N/A

### Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

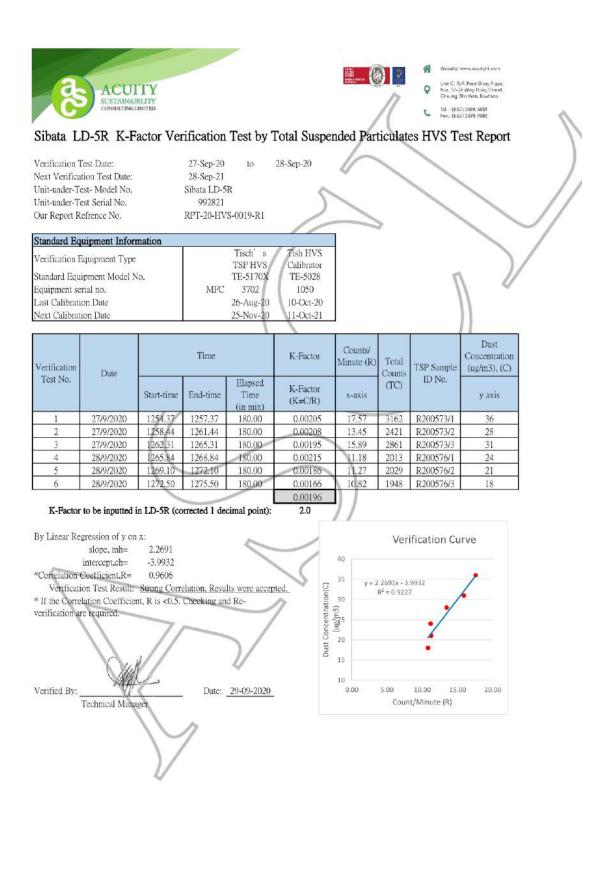
EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
			Cultural Heritage	Impact (Construct	ion Phase)			
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	Implemented
				EM&A Project				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented
S13.2-13.4	EM2	<ul> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual;</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;</li> <li>An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ul>	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented

## Appendix G Monitoring Schedule of the Reporting Month

# July 2021

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	1	2	3
4	5 Impact Dust monitoring (E-A1)	6	7	8	9 Impact Dust monitoring (E-A1)	10
11	12	13	14	15 Impact Dust monitoring (E-Al)	16	17
18	19	20	21 Impact Dust monitoring (E-A1)	22	23	24
25	26	27 Impact Dust monitoring (E-Al)	28	29	30	31
1	2					

## Appendix H Calibration Certificates (Air Monitoring)



Care and	56			1			DU	LIBRATION
							Septem	ber 23, 202
nvir	o n m	ont	21					
1 9 1 1								
2 <sup>11</sup>	Ce	rtifi	cate	/			tion	
			Calibration	Certificati	on Informat	tion		
Cal. Date:	September	23, 2020	Roots	meter S/N:	438320	Ta: 2	.95	'K
Operator:	Jim Tisch					Pa:	751.1 r	nm Hg
			e 11		DACE		J	in ing
Calibration	Model #:	TE-5025A	Cali	brator S/N:	3403			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4350	3.3	2.00	
	2	3	4	1	1.0200	6.4	4.00	
	3	5	6	1	0.9050	8.0	5.00	
	4	7	8	1	0.8650	8.8	5.50	
	5	9	10	1	0.7140	12.8	8.00	
		-1	**	-	0.17 2 10		0.00	
			1	Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right)}$	(Tstd)		Qa 1	Ан(Та/Ра)	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9939	0.6926	1.41	30	0.9956	0.6938	0.8863	
	0.9898	0.9704	1.998	83	0.9915	0.9720	1.2534	
	0.9877	1.0914	2.234	42	0.9893	1.0932	1.4014	
	0.9866	1.1406	2.343	32	0.9883	1.1425	1.4698	
	0.9813	1.3744	2.820	50	0.9830	1.3767	1.7726	
		m=	2.069	28		m=	1.29575	
	QSTD	b=	-0.017	779	QA	b=	-0.01116	
		r=	0.999	195		r=	0.99995	
				Calculation	96			
	Vstel=	AVol(Pa-AP)	/Pstd)(Tstd/Ta			ΔVol((Pa-ΔP)	/Pa)	
		Vstd/ATime	. analising te	~/		Va/ATime	1.31	
	-10 - 10		For subsecu	ent flow ra	te calculation			
		11 5			ce calculation	11	N N	
	Qstd=	1/m((√∆H(-	Pa Pstd (Tstd ) Ta	))-ь)	Qa=	$1/m \left( \sqrt{\Delta H} \right)$	Та/Ра))-b)	
		Conditions						54.54
Tstd:	298.15			[		RECAL	BRATION	
Pstd:		mm Hg			LIS EDA roca	mmende	nual recalibration	ner 1000
Allerables		ey or roading (in	11201					
ΔH: calibrate		er reading (in ter reading (					gulations Part 50	
Ta: actual at			nin ng)				Reference Metho	
Pa: actual ba			Hg)				nded Particulate	
	and a second pro-		-w/		the	e Atmospher	e, 9.2.17, page 30	
b: intercept								

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

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

### InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

#### Site Information

Location:	Emax	Site ID:	Date:	05-Jul-2021
Serial No:	1049	Model:	TE-5170X Operator:	Kate Wong

#### Ambient Condition

	Corrected Pressure (mm Hg):	755.6	Temperature (deg K):	303.2
--	-----------------------------	-------	----------------------	-------

#### **Calibration Orifice**

Model:	TE-5025A	Slope:	1.29575
Serial No.:	3465	Intercept:	-0.01116
Calibration Due Date:	23-Sep-21	Corr. Coeff:	0.99995

#### Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.27	0.868	32.0	31.65
2	1.59	0.970	34.6	34.15
3	1.94	1.071	37.0	36.58
4	2.29	1.164	39.3	38.80
5	2.64	1.248	41.1	40.59

#### Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m=	23.6799	b=	11.1529	Corr. Coeff=	0.9997
Samp	ler set point(SSP)	40	CFM		
		с	alculations		
Qstd = 1/m[Sqr	t(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/I	Pstd)(Tstd/Ta)]		b = sampler intercept		
			I = chart response		
Qstd = standard	flow rate		Tav = average temperature		
IC = corrected a	chart response		Pav = average pressure		
I = actual chart	response				
m = calibrator 0	Qstd slope				
b = calibrator Q	lstd intercept				
Ta = actual tem	perature during calibration (de	eg K)			
Pa = actual pres	sure during calibration (mm H	Hg)			
Tstd = 298 deg	K				
Pstd = 760 mm	Hg				
For subsequent	calculation of sampler flow:				
(1.21*m+b)/[Sq	rt(298/Tav)(Pav/760)]				
	美国西				
Checked by:	× 214		Date:	5-Ju	l-21

### InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

#### Site Information

Location:	Emax	Site ID:		Date:	15-Jul-2021
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

#### Ambient Condition

Corrected Pressure (mm Hg):	756.7	Temperature (deg K):	304.3

#### **Calibration Orifice**

Model:	TE-5025A	Slope:	1.29575
Serial No.:	3465	Intercept:	-0.01116
Calibration Due Date:	23-Sep-21	Corr. Coeff:	0.99995

#### Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.32	0.886	33.0	32.61
2	1.66	0.990	35.6	35.19
3	2.02	1.091	38.3	37.79
4	2.40	1.188	40.5	40.03
5	2.75	1.273	42.4	41.86

#### Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

- m=	24.0264	b=	11.4097	Corr. Coeff=	0.9995
Samp	ler set point(SSP)	41	CFM		
		С	alculations		
Qstd = 1/m[Sqr	t(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/F	Pstd)(Tstd/Ta)]		<ul><li>b = sampler intercept</li><li>I = chart response</li></ul>		
Qstd = standard	flow rate		Tav = average temperature		
IC = corrected of	chart response		Pav = average pressure		
I = actual chart	response				
m = calibrator (	Qstd slope				
b = calibrator Q	lstd intercept				
Ta = actual tem	perature during calibration (d	eg K)			
Pa = actual pres	sure during calibration (mm I	Hg)			
Tstd = 298 deg	K				
	Hg calculation of sampler flow: rt(298/Tav)(Pav/760)]				
Checked by:	黄雪菊		Date:	15-Ju	ıl-21

## Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



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

#### ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong 香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 在認可諮詢委員會的建議下獲香港認可處執行機關接受為

> 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 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

**Environmental Testing** 

此實驗所符合ISO/IEC 17025:2005所訂的要求 並獲認可進行載於認可範圍內下述測試類別中的指定測試或校正工作

#### 環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué). 此項 ISO/IEC 17025:2005 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 實施一套實驗所質量管理體系(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

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

WONG Wang-wan, Executive Administrator 執行幹事 黃宏華 Issue Date: 16 July 2014 簽發日期:二零一四年七月十六日

Registration Number : HOKLAS 241 註冊號碼:

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書按照香港認可處訂立的條款及條件證出



Date of First Registration : 16 July 2014 首次註冊日期:二零一四年七月十六日

L001195

## Appendix J Location Plan of Air Quality Monitoring Station

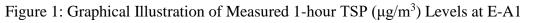


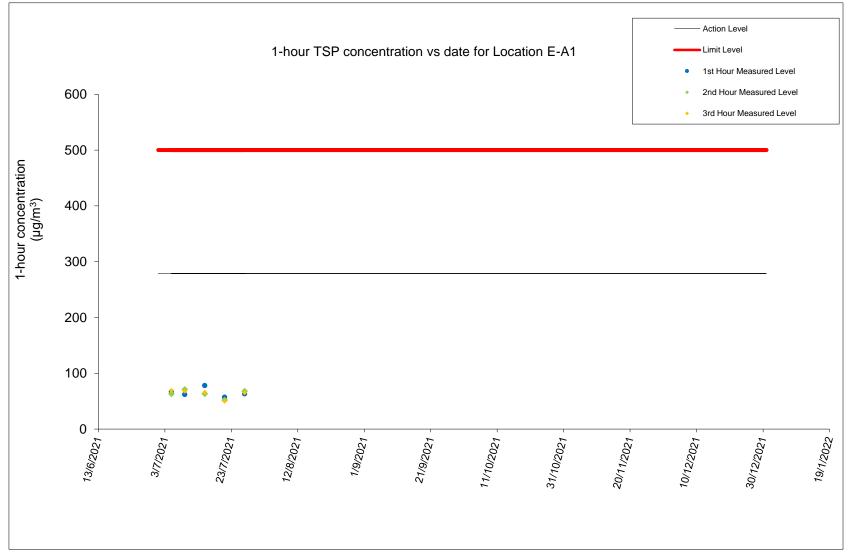
Acuity Sustainability Consulting Ltd.

## Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	5, 9, 15, 21 and 27 July 2021
Parameter:	TSP 1-hour
Other Factors:	Nearby traffic

	<b>1-hour TSP (μg/m<sup>3</sup>)</b>									
Date	Weather	Start Time	1 <sup>st</sup> Hour (μg/m <sup>3</sup> )	2 <sup>nd</sup> Hour (μg/m <sup>3</sup> )	3 <sup>rd</sup> Hour (μg/m <sup>3</sup> )					
05/07/2021	Sunny	9:16	67	63	69					
09/07/2021	Sunny	10:01	62	71	68					
15/07/2021	Sunny	9:05	78	63	66					
21/07/2021	Cloudy	8:31	57	52	50					
27/07/2021	Sunny	9:08	63	68	65					

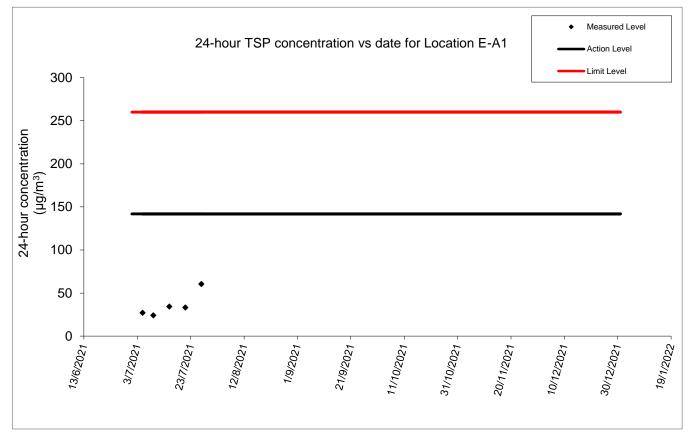




Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	5, 9, 15, 21 and 27 July 2021
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

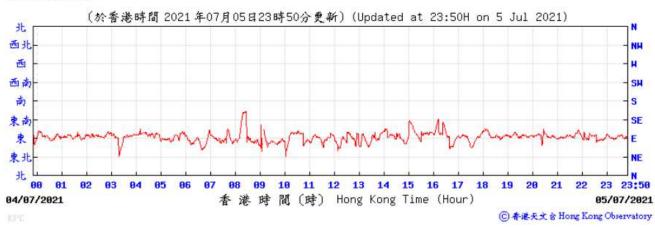
										Date of	Calibration:	5-Jul-21		Slope =	23.6799
										Calibrati	on due date:	19-Jul-21		Intercept =	11.1529
										Date of	Calibration:	15-Jul-21		Slope =	24.0264
										Calibrati	on due date:	29-Jul-21		Intercept =	11.4097
Start Date	Weather		Elapse Time		Cl	Chart Reading Av			Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight	(g)	Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )
5/7/2021	Sunny	2515.89	2539.89	1440.00	40	41	40.5	30.2	1007.4	1.21	1748	2.7389	2.7864	0.0475	27
9/7/2021	Sunny	2539.89	2563.89	1440.00	41	42	41.5	30.5	1010.3	1.26	1813	2.7481	2.7918	0.0437	24
15/7/2021	Sunny	2564.02	2588.02	1440.00	41	41	41.0	31.3	1008.9	1.21	1736	2.7389	2.7986	0.0597	34
21/7/2021	Cloudy	2588.02	2612.02	1440.00	41	42	41.5	26.8	1003.0	1.23	1769	2.7516	2.8105	0.0589	33
27/7/2021	Sunny	2612.02	2636.02	1440.00	41	41	41.0	31.3	996.8	1.19	1707	2.7337	2.8370	0.1033	61

### Figure 2: Graphical Illustration of Measured 24-hour TSP ( $\mu g/m^3$ ) Levels at E-A1

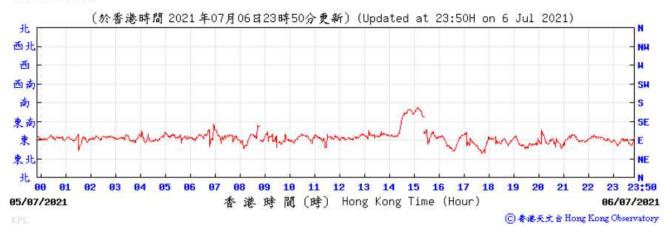


#### WIND DIRECTION DATA FOR 5, 6, 9, 10, 15, 16, 21, 22, 27 and 28 July 2021

Wind Direction:



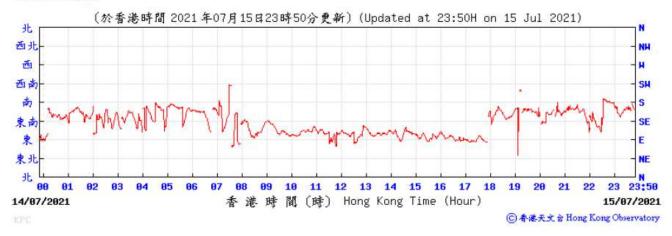
Wind Direction:



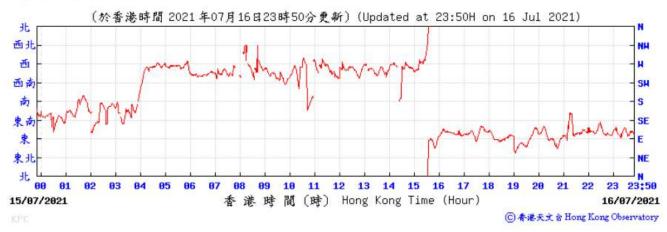


Wind Direction:

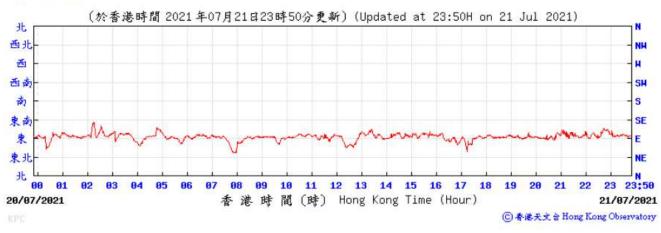


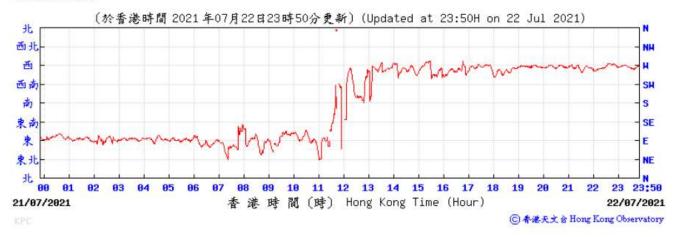


Wind Direction:



Wind Direction:





Wind Direction:



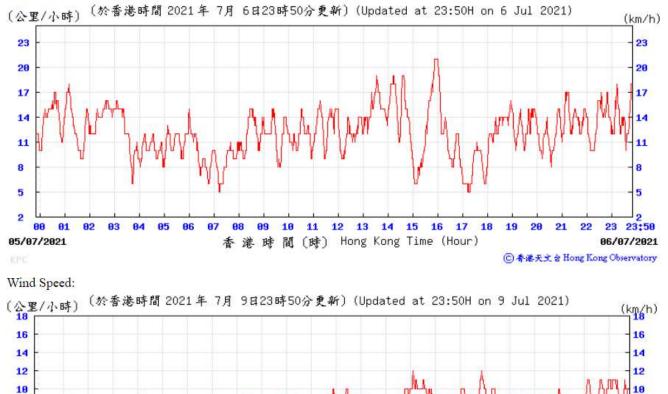


#### WIND SPEED DATA FOR 5, 6, 9, 10, 15, 16, 21, 22, 27 and 28 July 2021



Wind Speed:

08/07/2021



香港時間(時) Hong Kong Time (Hour)

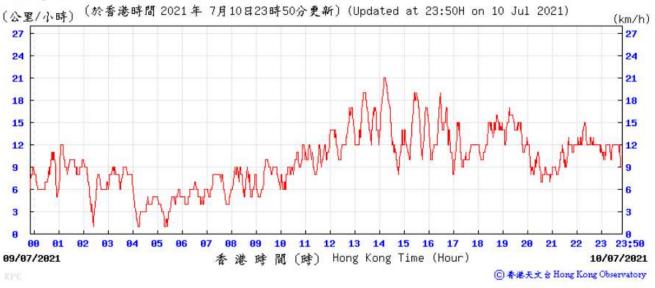
Ø

23 23:50

09/07/2021

②春港天文台 Hong Kong Observatory



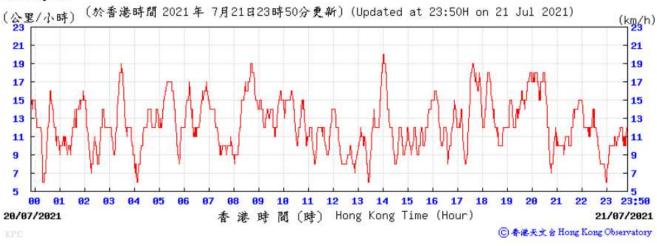




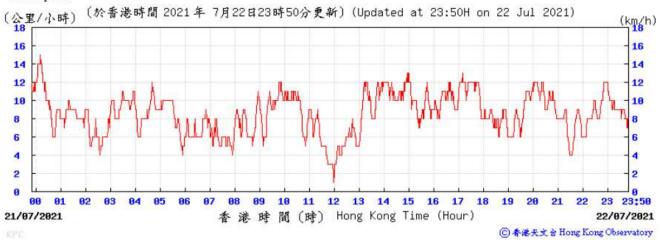








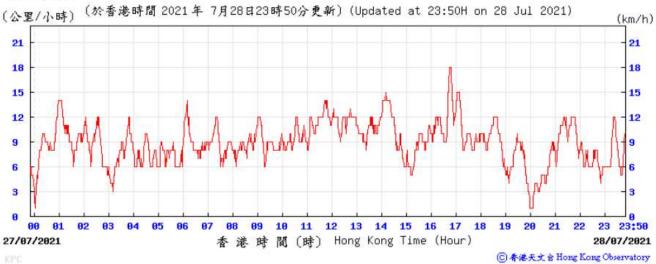
Wind Speed:



Wind Speed:







## Appendix L Waste Flow Table

#### Monthly Summary Waste Flow Table

### Name of Department:Highways DepartmentMonthly Summary Waste Flow Table forJuly 2021

### Contract No. / Works Order No.: <u>HY/2018/02</u>

Monthly Summary Waste Flow Table for July 2021 [to be submitted not later than the 15<sup>th</sup> day of each month following reporting month] (All quantities shall be rounded off to 2 decimal places.)

			Actual Quantities of Inert Co	onstruction Waste Genera	ted Monthly	
Month		(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)
Jan-21	19,087.84	0.00	100.00	9,967.20	8,847.39	0.00
Feb-21	10,564.52	0.00	0.00	5,730.48	4,787.27	0.00
Mar-21	8,983.07	0.00	0.00	572.78	8,339.11	0.00
Apr-21	16,521.00	0.00	0.00	6,895.77	9,545.51	0.00
May-21	9,689.33	0.00	0.00	1,606.31	7,842.15	0.00
Jun-21	10,674.12	0.00	0.00	6,583.16	3,897.95	0.00
Sub-total	75,519.88	0.00	100.00	31,355.70	43,259.38	0.00
Jul-21	10,763.32	0.00	0.00	8,147.74	2,470.81	0.00
Aug-21	0.00	0.00	0.00	0.00	0.00	0.00
Sep-21	0.00	0.00	0.00	0.00	0.00	0.00
Oct-21	0.00	0.00	0.00	0.00	0.00	0.00
Nov-21	0.00	0.00	0.00	0.00	0.00	0.00
Dec-21	0.00	0.00	0.00	0.00	0.00	0.00
Total	86,283.20	0.00	100.00	39,503.44	45,730.19	0.00
2020	142,655.94	0.00	140.00	34,998.72	105,790.14	1,109.00
2019	7,646.10	340.00	140.00	0.00	6,643.48	0.00
Accumulated Total	236,585.24	340.00	380.00	74,502.16	158,163.81	1,109.00

			I	Actual Quanti	ties of <u>Non-inert</u>	Construction V	Waste Generat	ed Monthly	
Month	(g) Month Metals		(h) Paper∕ cardboard packaging		(i Plas	/	Chemic	(j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill
	(in '	000kg)	(in '0	00kg)	(in '00	00kg)	(in '0	000kg)	(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan-21	104.35	104.35	0.02	0.02	0.00	0.00	0.00	0.00	68.88
Feb-21	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	46.76
Mar-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.18
Apr-21	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	79.67
May-21	147.80	147.80	0.13	0.13	0.00	0.00	0.00	0.00	92.94
Jun-21	108.91	108.91	0.06	0.06	0.00	0.00	0.00	0.00	84.04
Sub-total	361.06	361.06	0.27	0.27	0.00	0.00	0.00	0.00	443.47
Jul-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144.77
Aug-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	361.06	361.06	0.27	0.27	0.00	0.00	0.00	0.00	588.24
2020	207.47	207.47	1.28	1.28	0.00	0.00	0.00	0.00	409.33
2019	22.57	22.57	0.05	0.05	0.00	0.00	0.00	0.00	500.00
Accumulated Total	591.10	591.10	1.60	1.60	0.00	0.00	0.00	0.00	1,497.57

## Appendix M Statistics on Complaint, Notifications of Summons and Successful Prosecutions

Statistical Summary of Exceedances			
Air Quality			
Location	Action Level	Limit Level	Total
E-A1	0	0	0

#### Statistical Summary of Environmental Complaints

Departing Devied	Env	vironmental Complaint Statis	stics
Reporting Period	Frequency	Cumulative	Complaint Nature
1 July 2021 – 31 July 2021	0	2	N/A

#### Statistical Summary of Environmental Non-compliance

Donorting Dariod	Enviro	onmental Non-compliance Sta	atistics
Reporting Period	Frequency	Cumulative	Details
1 July 2021 – 31 July 2021	0	0	N/A

#### Statistical Summary of Environmental Summons

Departing David	En	vironmental Summons Statis	tics
<b>Reporting Period</b>	Frequency	Cumulative	Details
1 July 2021 – 31 July 2021	0	0	N/A

#### Statistical Summary of Environmental Prosecution

Donorting Doriod	Env	ironmental Prosecution Stati	stics
<b>Reporting Period</b>	Frequency	Cumulative	Details
1 July 2021 – 31 July 2021	0	0	N/A

## Appendix N Monitoring Schedule of the Coming Month

# August 2021

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 Impact Dust monitoring (E-Al)	3	4	5	6 Impact Dust monitoring (E-Al)	7
8	9	10	11	12 Impact Dust monitoring (E-A1)	13	14
15	16	17	18 Impact Dust monitoring (E-A1)	19	20	21
22	23	24 Impact Dust monitoring (E-A1)	25	26	27	28
29	30 Impact Dust monitoring (E-A1)	31	1	2	3	4

5 6

# Central Kowloon Route Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area)

#### **Gammon Construction Limited**

# Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

# Monthly EM&A Report No. 10 (July 2021)

Version 1 Date of Report: 9 August 2021

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

#### CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk





## Environmental Permit No. EP-457/2013/D

## **Central Kowloon Route**

# **Independent Environmental Checker Verification**

Works Contract:	Buildings, Electrical and Mechanical Works (HY/2019/13)
-----------------	---

#### **Reference Document/Plan**

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.10
Date of Report:	9 August 2021 (Version 1)
Date received by IEC:	9 August 2021

#### **Reference EP Condition**

Environmental Permit Condition:

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

3.4

#### **IEC Verification**

I hereby verify that the above referenced <del>document</del>/plan complies with the above referenced condition of EP-457/2013/D.

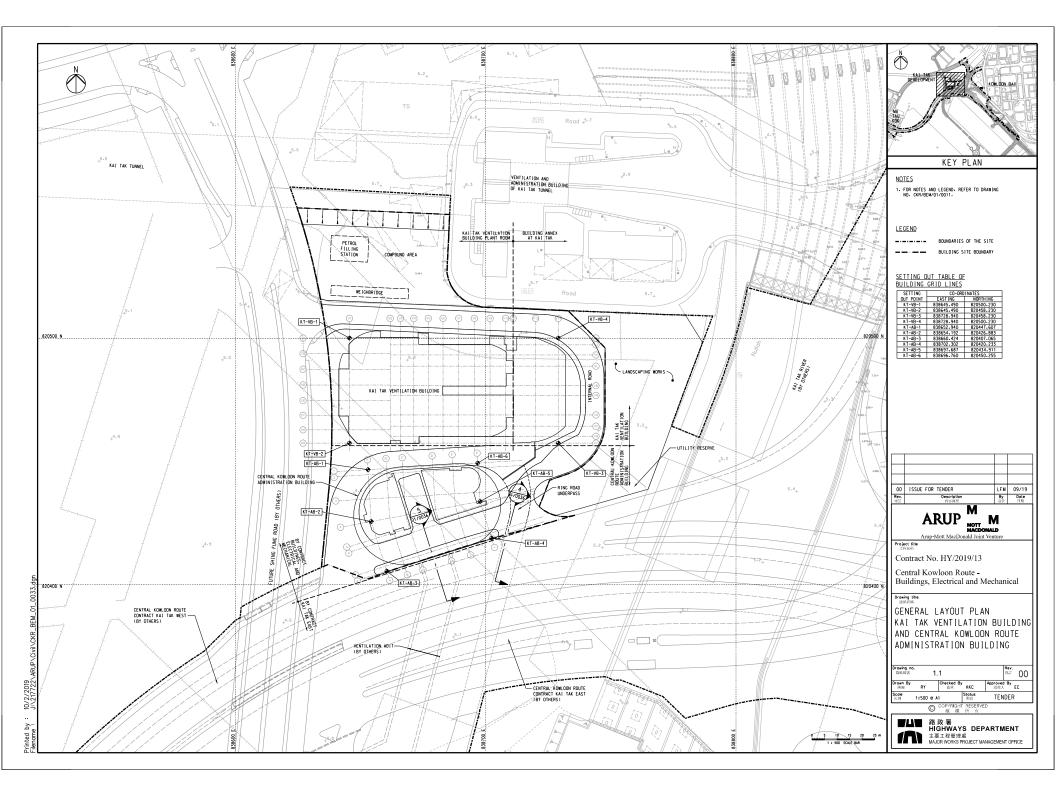
Mondy 20.

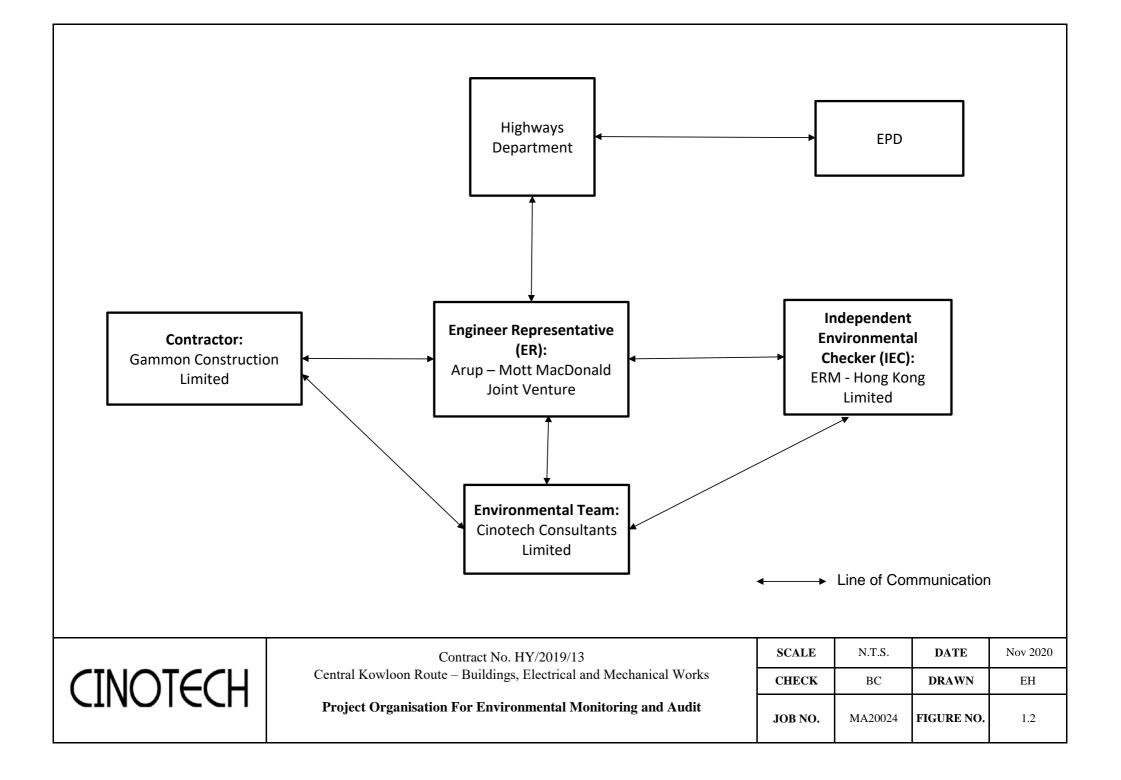
Ms Mandy To Independent Environmental Checker Date:

10 August 2021

Our ref: 0436942\_IEC Verification Cert\_BEM\_Monthly EM&A Rpt No.10\_20210810.docx

FIGURES



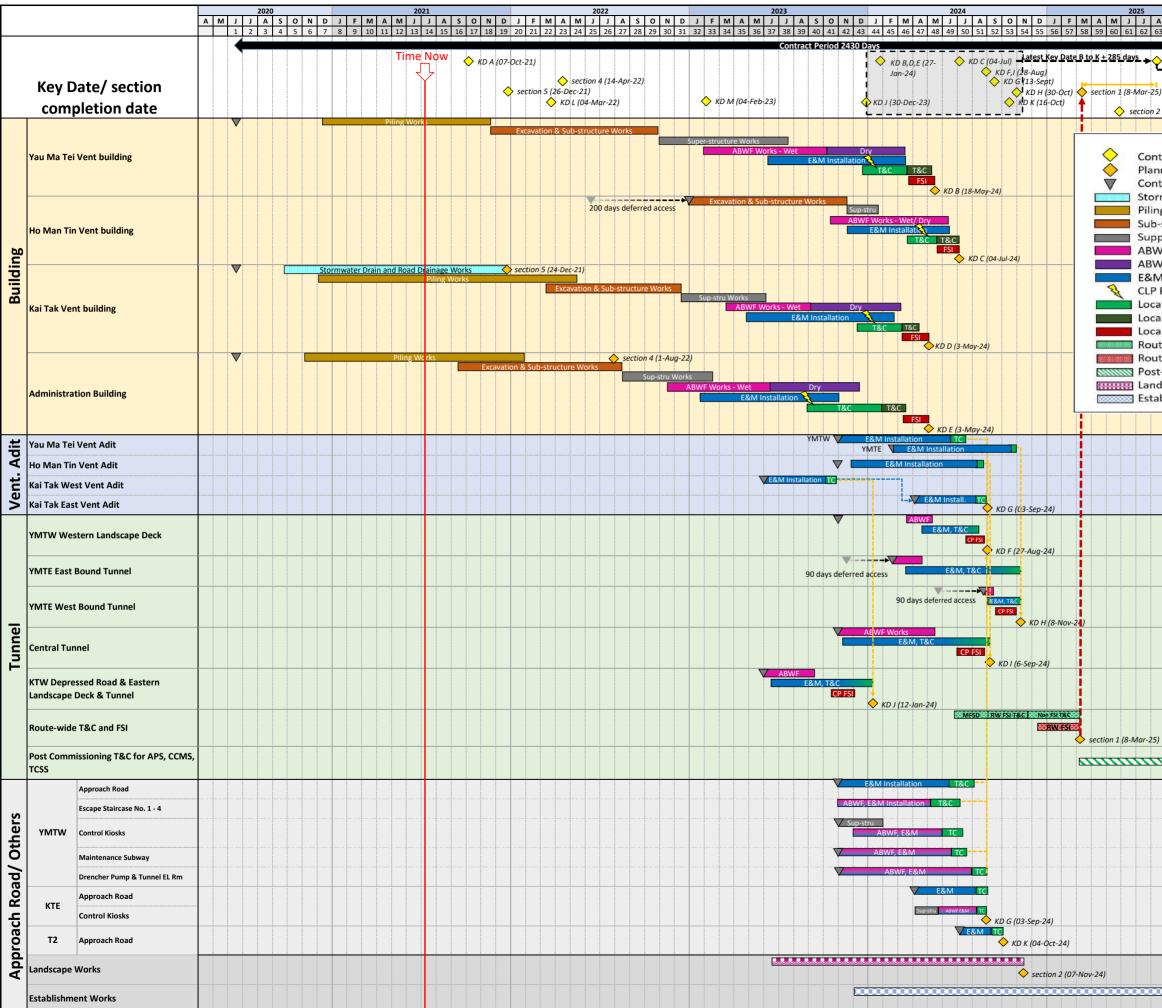


APPENDIX A CONSTRUCTION PROGRAMME



### Contract No. HY/2019/13 Central Kowloon Route - Buildings, Electrical and Mechanical Works

**Summary Programme** 





										20	26							20	27	
<b>A</b> 63	<b>S</b> 64	<b>0</b> 65	<b>N</b> 66	<b>D</b> 67	J 68	<b>F</b> 69	<b>M</b> 70	<b>A</b> 71	<b>M</b> 72	J 73	<b>J</b> 74	<b>A</b> 75	<b>S</b> 76	<b>0</b> 77	<b>N</b> 78	<b>D</b> 79	<b>J</b> 80	<b>F</b> 81	M 82	<b>A</b> 83
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	F W F W																			
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al	Te	stir	ng a	and	Co	m	mis													
	Te Fir																age	or	ıly)	
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t-	Cor	mm	niss	ior	ning															
	sca					s														
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APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

#### Monthly Summary Waste Flow Table

Name of Department: HyD

Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works

#### <u>Kai Tak Site Area</u>

Monthly Summary	Waste Flow	<sup>•</sup> Table for <u>2021</u> (year)	
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		Actual Quanti	tes of Inert C&D	Materials Genera	ted Monthly		Actual Quantites of C&D Waste Generated Monthly						
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.	
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse	
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)	
		(see Note 5)											
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)	
Jan	0.698	0	0	0	0.698	0	0	0	0	0	0	0.009	
Feb	0.412	0	0	0	0.412	0	0	0	0	0	0	0.014	
Mar	0.790	0	0	0	0.790	0	0	0	0	0	0	0.021	
Apr	0.994	0	0	0	0.994	0	0	0	0	0	0	0.008	
May	1.075	0	0	0	1.075	0	0	0	0	0	0	0.007	
Jun	1.580	0	0	0	1.580	0	0	0	0	0	0	0.007	
Sub-Total	5.550	0	0	0	5.550	0	0	0	0	0	0	0.065	
Jul	1.548	0	0	0	1.548	0	0	0	0	0	0	0.023	
Aug													
Sep													
Oct													
Nov													
Dec													
Total (2020)	6.792	0	0	0	6.792	0	0	0	0	0	0	0.060	
Total (2021)	7.098	0	0	0	7.098	0	0	0	0	0	0	0.088	
Total	13.890	0	0	0	13.890	0	0	0	0	0	0	0.148	

Note:

(1) The performance targets are given in PS Clause 25.24

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

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials, and water barriers

(4)

The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.24 (5) Density values and Bulk Factors adopted:

Hard Rock and Large Broken Concrete:	2.4 T/m3 (in-situ)	Bulk Factor:	1.25	
Soil / Fill:	2.0 T/m3 (in-situ)	Bulk Factor:	1.1	
General Refuse:	400 kg/m3			
Chemical Waste (mainly used lubricant):	900 kg/m3			
Tree Trunk / Tree Stump:	850 kg/m3 (in-situ)	Bulk Factor:	1.1	

(6) The reported and forecast volume figures are in "bulk" volume, with Bulk Factor applied as per Note (5)

(7) This figure refers to marine sediment disposed via dumping at sea. Treated Sediment for Reuse on-site will be categorized into "Reused in the Contract"

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction S4.3.10	n Dust Impact D1	The contractor shall follow the procedures and requirements given in the Air	Minimize dust	Contractor	A 11	Construction	- APCO	^
34.3.10		Pollution Control (Construction Dust) Regulation	impact at the nearby sensitive receivers	Contractor	All construction sites	stage	- To control the dust impact to meet HKAQO and TM-EIA criteria	
S4.3.10		Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m2 to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet HKAQO and TM-EIA criteria	۸
\$4.3.10		Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the	Contractor	All construction sites	Construction stage	- APCO - To control the dust	۸
		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.	nearby sensitive receivers				impact to meet HKAQO and TM-EIA criteria	^
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads.						۸
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						۸
		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.						۸
		Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						۸
		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.						۸
		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.						۸
		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						٨
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						N/A
		Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides						*
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		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.						N/A

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		Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						N/A
\$4.3.10	D6		Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	٨
Construction	n Noise (Airbor	ne)		•		•		
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨
		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.						۸
		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.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						٨
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	-					N/A
S5.4.1	N2	1 9 8	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
S5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	^
\$5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	- TM-EIAO	N/A
Water Quali	ity (Construction					•		
S6.9.1.1	W1	<u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works 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.	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	~

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.						۸
		The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction.						۸
		All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.						N/A
		The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.						N/A
		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.						٨
		Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they 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.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 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.						۸
		Manholes should always be adequately 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.						٨
		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 summarized 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.						٨
		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 site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The 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.						٨
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.						٨

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		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.						۸
		Adopt best management practices.						٨
		All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.						۸
\$6.9.1.2	W2	<u>Tunneling Works and Underground Works</u> Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	N/A
		Uncontaminated discharge should pass through sedimentation tanks prior to off- site discharge.					- IM-DSS	N/A
		The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.						N/A
		Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.						N/A
S6.9.1.3	W3	<u>Sewage Effluent</u> 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 minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - TM-DSS	٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.5	W4	Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted. A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly recharged into the ground.	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	- Water Pollution Control Ordinance - TM-EIAO - TM-DSS	A A
		If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers.						^
		If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.6	W6	Accidental Spillage All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains.	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO TM DSS	۸
		The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.					- TM-DSS	۸
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						۸
Waste Mana	gement (Const	ruction Waste)						
S7.4.1	WM1	<u>On-site sorting of C&amp;D material</u> Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.	turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	Α

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.	Good site practice to minimize the waste generation and recycle the	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	۸
		Carry out on-site sorting.	C&D materials as					^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate	far as practicable so as to reduce the amount for final					۸
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.	disposal					N/A
		Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						۸
		Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						۸
S7.5.1		<u>C&amp;D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.	so as to reduce the amount for final	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No.</li> <li>19/2005</li> </ul>	^
		The Contractor should recycle as much of the C&D materials as possible on- site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	disposal					N/A

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S7.5.1	WM4	Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	t of	Practice Guide (PG) for Investigation and Remediation of Contaminated Land · GN/GM for land contamination	^
\$7.5.1	WM5	<u>Land-based and Marine-based Sediment</u> All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	٨
		All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.						N/A
		Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations.						N/A
		Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.						N/A
		The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers.						N/A
		The Contractors shall comply with the conditions in the dumping licence.						^
		All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.						N/A
		The material shall be placed into the disposal pit by bottom dumping.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site.						N/A
		Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.						N/A
		For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						N/A
S7.5.1	WM6	<u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling	٨
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.					and Storage of Chemical Waste	٨
		The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated.						^

EIA Ref.	EM&A Ref.		Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.						۸
\$7.5.1	WM7	General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	^
		general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.	1					
		Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.						^
		Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.						^
Land Contai								
S8.9 & Appendix 8.4	LC2	Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth- moving plant.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	t of	Practice Guide (PG) for Investigation and Remediation of Contaminated Land - Guidance Notes for Contaminated Land	N/A
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.				contaminated area	Assessment and Remediation • Guidance Manual for	N/A
1		The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.					Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L			<b>—</b>	-	L		· · · · ·	^
S9.18	Н8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	~
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	۸
Landscape a	nd Visual			•			II	
S10.10.1 Table 10.11		Good Site Management Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact     Contractor     Within Project site     Construction     /	/	۸			
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.						^
S10.10.1 Table 10.11	LV4	Screen Hoarding Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV5	Lighting Control during Construction All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	<u>Tree Protection &amp; Preservation</u> Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	visual impact	Contractor	Within Project site		<ul> <li>'Guidelines for Tree Risk Management and Assessment</li> <li>Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>Latest recommended horticultural practices from GLTM Section, DEVB</li> </ul>	N/A
S10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	visual impact	Contractor	Within Project site and designated off- site locations		ETWB TCW 3/2006     Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB     ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV9	<u>Compensatory Planting</u> For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006.	enhance landscape	Contractor	Within Project site	Construction Phase	ETWB TCW 3/2006     Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB     ETWB TCW 2/2004	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV10	<u>Screen Planting</u> Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction Phase	<ul> <li>Guidelines on</li> <li>Greening of Noise</li> <li>Barriers, issued April</li> <li>2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	N/A
S10.10.1 Table 10.11	LV11	<u>Green Roof</u> Roof greening will be established on ventilation and administration buildings to reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels.	Minimize landscape and visual impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV12	<u>Reinstatement</u> All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV13	Reprovising of Public Open Space All areas of public open space affected by the Project will be reprovisioned either at the same location following the completion of temporary works, or at a separate site, as agreed with relevant Government departments. Open space should be re-provisioned in an enhanced manner.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	Open space should be re- provided in an enhanced manner.	N/A
Cultural Her	ritage Impact (	Construction Phase)			I	I		
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	During the Construction Phase	AMOs requirements	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
EM&A Proj	ect							
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	۸
\$13.2-13.4	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	٨
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;						۸
		An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.						٨

Remarks: EM&A Programme under EP-457/2013/D					
^	Compliance of mitigation measure;				
N/A N/A(1)	Not applicable at this stage; Not observed;				
*	Recommendation was made during site audit but improved/retified by the contractor;				
#	Recommendation was made during site audit but not yet improved/retified by the contractor;				
Х	Non-compliance of mitigation measure;				
•	Non-compliance but rectified by the contractor.				

APPENDIX D SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

# Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

# Appendix D – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

**Reporting Month**: July 2021

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.