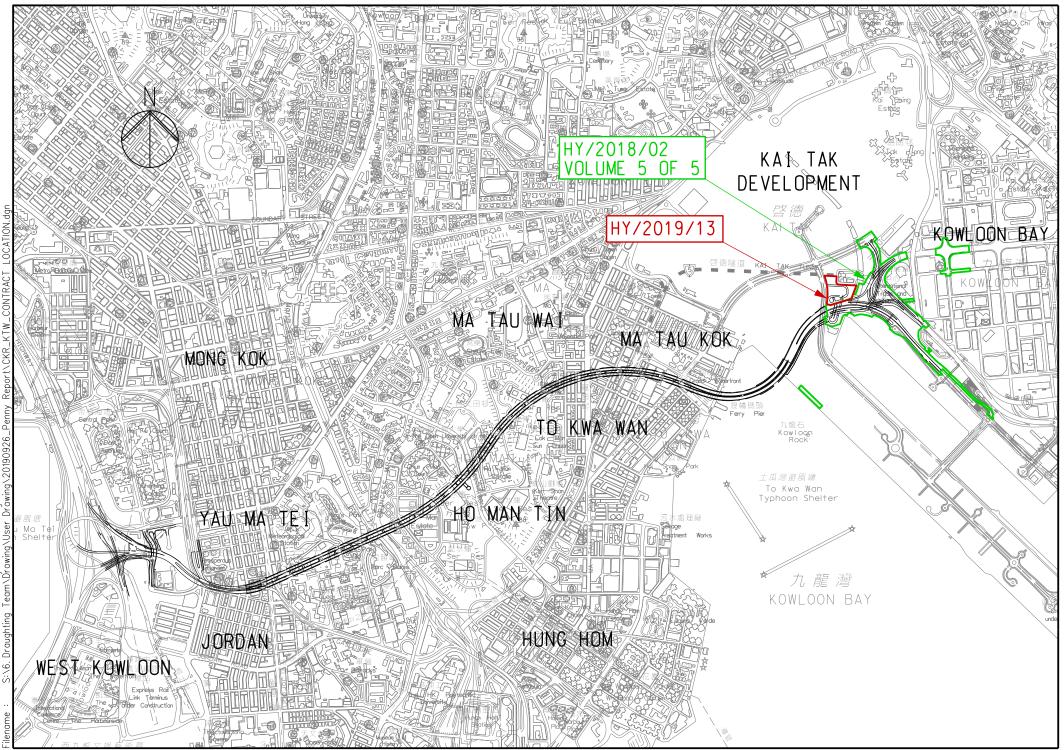
Vol. 5 of 5

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

Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area) September 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/Plan to be-Certified/ Verified:	Monthly EM&A Report No.25 (September 2021)	
Date of Report:	7 October 2021 (Rev. 1)	
Date received by IEC:	11 October 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/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

12 October 2021

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.25.docx



Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 25

(Period from 1 to 30 September 2021)

Rev. 1

(7 October 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)	Ki

TABLE OF CONTENTS

EXECUTIVE SUMMARY

1.	BASIC PROJECT INFORMATION	6
2.	ENVIRONMENTAL STATUS	9
3.	MONITORING RESULTS	10
4.	SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS	15
5.	EM&A SITE INSPECTION	17
6.	FUTURE KEY ISSUES	18
7.	CONCLUSION AND RECOMMENDATIONS	. 19

LIST OF APPENDICES

- A. Alignment and Works Area for the Contract No. HY/2018/02
- B. Construction Programme
- C. Project Organization Chart
- D. Dust Event-Action Plan (EAP)
- E. Noise Event-Action Plan (EAP)
- F. Environmental Mitigation Implementation Schedule (EMIS)
- G. Monitoring Schedules of the Reporting Month
- H. Calibration Certificate (Air Monitoring)
- I. The Certification of Laboratory with HOKLAS Accredited Analytical Tests
- J. Location Plan of Air Quality Monitoring Station
- K. Monitoring Data (Air Monitoring)
- L. Waste Flow Table
- M. Statistics on Complaint, Notifications of Summons and Successful Prosecutions
- N. Monitoring Schedule of the Coming Month

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 25th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 September 2021 to 30 September 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 1, 8, 15, 21 and 29 September 2021. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 8 September 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 1, 15 and 29 September 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 Temporary Platform & Kai Cheung U Turn.
- Pile Cap Construction at Portion 1A, Kai Cheung Loop Road & Portion 2B
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 & S21 at Area Part 3A
- Construction of Temporary Platform at Kai Tak Nallah
- Retaining Wall Construction at Portion 2B
- Sheet piling Work at Area Part 1A & 3B
- 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 Valid Environmental Licence,

Permit/ Licences/	Valid Period			
Notification /Reference No.	From	То	Status	Remark
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Li				
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Constructi			·	ion Dust) Regulation
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Produce	0			
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Dispo				I
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permi	it	,		I
CW DE0726 21	4 4 21	2 E.1. 22	Superseded by	
GW-RE0736-21	4-Aug-21	2-Feb-22	GW-RE0910-21	General Work for Area A
GW-RE0910-21	30-Sep-21	28-Mar-22	Valid	
GW-RE0273-21	2-Apr-21	1-Oct-21	Superseded by	General Work for Area B and Site Office
	1		GW-RE0920-21	
GW-RE0920-21	24-Sep-21	22-Mar-22	Valid	
GE-RE0696-21	4-Aug-21	2-Feb-22	Valid	Kai Cheung U Turns
CW DE0226 21	15-Mar-21	12 San 21	Valid until	
GW-RE0226-21	13-War-21	12-Sep-21	12-Sep-21	Portion 2B
GW-RE0857-21	13-Sep-21	12-Mar-22	Valid	
CWL DE0700.21	11 4 01	10.11.21	Superseded by	
GW-RE0780-21	11-Aug-21 10-Nov-21	10-Nov-21	GW-RE0877-21	Central Divider Remova
GW-RE0877-21	23-Sep-21	18-Dec-22	Valid	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/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/D for the Project

EP Condition (EP-457/2013/D)	Submission	Submission date
Condition 3.4	Monthly EM&A Report (August 2021)	14 September 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

Table 2.2 Summary for the location of monitoring station

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 ParameterMonitoring Equipment		Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	761173	1 Jul 2021
24-hour TSP	hour TSP TE-5170X High Volume		4 and 16 Sep 2021
Sampler			
	TE-5028A Calibration Kit		3 August 2021

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 1st 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 m³min⁻¹, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m³min⁻¹);
- 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

Monitoring Station	Major Dust Source
E-A1	Nearby traffic

Table 3.4	Observation at	Dust N	<i>I</i> onitoring	Station

3.6.2. Air quality impact monitoring for the reporting month was carried out on 4, 10, 16, 21 and 27 September 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.

Monitoring Location	Range(µg/m ³)	Action Level(µg/m ³)	Limit Level(µg/m ³)
E-A1	61 - 78	279	500
Ta	ble 3.6 Summary of 24-h	our TSP Monitoring Result	S
Monitoring Location	Range(µg/m ³)	Action Level(µg/m ³)	Limit Level(µg/m ³)
E-A1	15 - 53	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
	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)			
September-2021	2,418.87	0.00	108.12	0.02	0.00	94.58

Table 3.7 Quantities of waste generated from the Project

4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

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

Iau	ble 4.1 Eliviroliniental Co	Implaint Handling Procedure	
Complaint Received via	Project Hotline	Complaint Received via 1823 or from ot	her
		government departments	
Contractor notify ER, ET	and IEC	ER notify Contractor, ET and IEC	
, , , , , , , , , , , , , , , , , , ,			
Contractor log complair	t and date of receipt ont	o the complaint database. Contractor, ER and ET	to
	-	ation of complaint	
If complaint is considere	d not valid	If complaint is found valid	
ii comptante is considere			
ET or ER to reply the con	mnlainant if necessary	Contractor to identify and implement remed	dial
ET OF ER to reply the col	mpramant if necessary	• •	
		measures in consultation with the IEC, ET a	and
		ER.	
		The ER, ET and IEC to review the effectiven	less
		of the Contractor's remedial measures and	the
		updated situation; ET to undertake addition	nal
		monitoring and audit to verify the situation	ı if
		necessary, and oversee that circumstances lead	ing
		to the complaint do not recur. ER to cond	luct
		further inspection as necessary.	
If the complaint is refer	red by the EPD, the Con	tractor to prepare interim report on the status of t	he
complaint investigation	and follow-up actions sti	pulated above, including the details of the remed	ial
measures and additiona	al monitoring identified of	or already taken, for submission to EPD within th	e
	time frame ass	igned by the EPD	
The ET to record the deta	ails of the complaint, res	ults of the investigation, subsequent actions taker	ı to
	-	luding the effectiveness of the remedial measures	
-	-	toring results in the monthly 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, 5 site inspections were carried out by the representative of ET, Contractor and Engineer on 1, 8, 15, 21 and 29 September 2021, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 1, 15 and 29 September 2021.
- 5.2. One joint site inspection with IEC also undertaken on 8 September 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
1 September 2021	1. Improper waste dumping was found at	1. Waste had been transferred to a
1 September 2021	U-turn.	covered rubbish bin.
8 September 2021	NA	NA
15 September 2021	NA	NA
21 Sontombor 2021	1. Container for general waste should be	1. Rubbish bin had been covered.
21 September 2021	enclosed with tarpaulin nearby S21.	
20 September 2021	1. Chemicals were observed without placing	1. Chemicals had been removed.
29 September 2021	on drip tray at Footbridge.	

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.

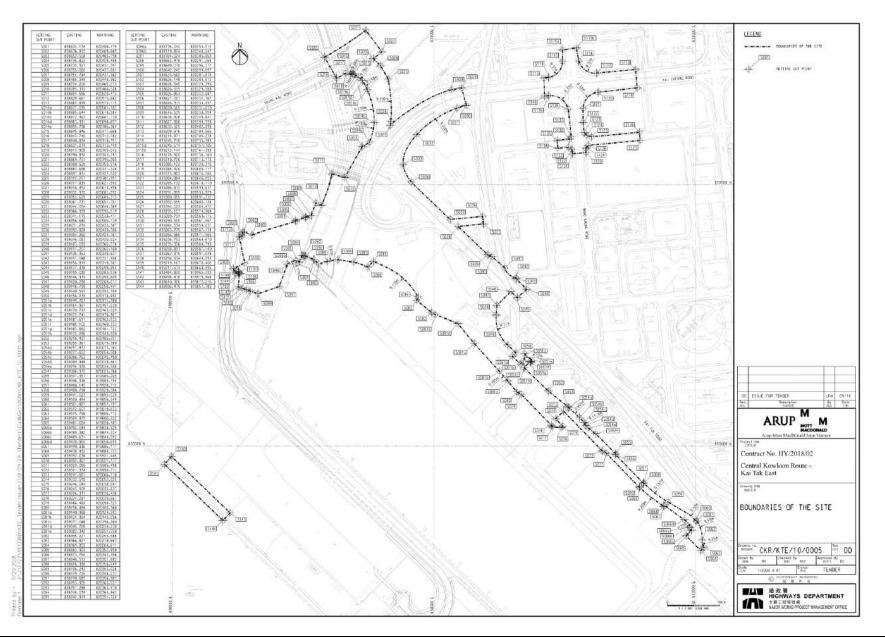
6. FUTURE KEY ISSUES

- 6.1. The construction activities provided by Contractor in the next reporting month are:
 - Bored Pile at Temporary Platform & Kai Cheung U Turn.
 - Pile Cap Construction at Portion 1A, Kai Cheung Loop Road & Portion 2B
 - RC structure for Adit at Area Part 1B.
 - RC structure for Underpass S3 & S21 at Area Part 3A
 - Construction of Temporary Platform at Kai Tak Nallah
 - Retaining Wall Construction at Portion 2B
 - Sheet piling Work at Area Part 1A & 3B
 - 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 25th monthly EM&A Report presents the EM&A works undertaken during the period from 1 September 2021 to 30 September 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 8 September 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

ta Date: 25-Sep-2 nt Date: 11-Oct-21						Centr	Contr e Kow		5 (S.C.)				k Eas	st										A	Chmex	-Paul	Y Joint	Venture	8
10	Activity Name		Orig Dur	Stat	Finish	Lole Start	Lote Finish	Total Fisar	TRA.			Septer 29	réer		Volosvan V	00069 30	r.			Nove	eritier 1		1.7.572432	Decerso 32	91			289399 33	
entral Kowi	oon Route - Kai Tak East (Mo	onth 29 Update) (Re	621	28-Feb-20 A	28-Apr-22	10-Dec-20	12-Apr-23		711.00	2 2	. 0	5 12	-19	26	03	30	17	24	31	07	14 3	21 21	(5	12	19	28	102 1	1 16	21
	RIES AND GENERAL REQUIR		- 149	22-309-21 A	22140-22	20400-21	08-Mar-23	325	0.00																				
	Dates and Milestones																												
Key Dates			0	14-Jan-22	14-Jan-22	20-Nov-21	20-Nov-21	-55	0.00																				
Sections of th	he Works		0	14-Jan-22	14-Jan-22	20-Nov-21	20-Nov-21	-55	8.00																				
KD-12	KD12 - Settion 12 Completion of Struct: of	/ Underpass 521 Allow access to	- 0		14-Jan-22*		20-Nov-21	-55																					
Independent	182,102,104,20,25,30 for UE (646d) t Safety Audit Scheme ACC D31	1(5)	180	2236621 A	21-34-02	05744+22	07-Mar23	410	0.00																				
Safety Aduit			180	22-34-21 A	21-Jan-22	09-Nov-22	07-Mar-23	410	0.00																				
SA1110	5th Safety Audit at 6 months intervals		0	22-341-25 A		09 Nov-22	1																			1			
SA-1112	6th Safety Audit at 6 months intervals		0	21-Jan-72		07-Mar-23		410	_																				,
Utilities Sche	edule (WSD/DSD/CLP/TG/PCC	W/HKB/ATC/KT Tur	140	20-3/125 A	234Jan 22	04169-22	05-Mar 23	11151	0.00					-															
Utilities Month			149	29-bi-21 A	22-lan-22	047401-22	08-Mar-23	325	0.00																				
UU-1042	10th Utilities monthly meeting			29-3ul-21 A		041404-22	Conservation of the local distribution of th		11.1																				
00-1044	11st Utilities monthly meeting			25-Sep-21		04Nov-22		325	_																				
UU-1046	12nd UtBites monthly meeting			20-Nov-21		30-Dec-22		325																					
UU-1048	13rd Utilities monthly meeting			22-Jan-22		08-Mar-23		325	_																				-
100000			07	28-Feb 20 A	26.6m22	05-Har-21	11-409-22-	121	0.00																				1
	D ENGINEERING Design & Engineering																												
	Indation of Ring Road Underpass & V	untilitation & dis	461	28-Fitb-20 A	15.500.31	11-Aug-22	11-44922	256	0.00																				
	ign for Foundation of Ring Road Und				25-6ep-21	11-Aug-22	11-Aug-22	256	0.00																				
DES-0198	CSD-F Submit to PM-8 all releasest parties for				25-Sep-21	11-Aug-22	11-Aug-22	256	0.00				1					17.5											
DES-0200	CSD-F Consent to start the works	or review and opproval	21	20-190-20 A		11-40-22		250					1.1	L															
化动物物	Contraction of the second		v		25-5ep-21		11-Aug-22	630	-					[]															
	Works Design & Engineering																												
	rary Works for Bridges			07-Sep-21 A		09-Mar-21	20-Jun-22	104	0.00																				
State of the	emp working platform for Bridge S1/	S9 over Kai Fuk Road			24-Nov-21	20-May-2L	19-34-21	-107	0.00						_														
DES-1320	DES - ICE chedking and approval			07-Sep-21 A		20-May-21	19-Jun-21	-107									-	-											
DE5-1322	DES - Project Manager checking and appro works			28-00-21	24-Nov-21	21-Jun-21	19-3:4-21	-107	_																				
_	emp working platform for Bridge S7 (25-5ep-21	06-3av-22	09-Mar-21	24-Sep-21	-84	0.00								1	1											
DES-1324	DES - Prepare preliminary proposal submis	sian -		25-Sep-21	06-Nov-21	09-Mar-21	23-Apr-21	-163								_	-		-										
DES-1326	DES - ICE checking and approval			09-Nov-21	06-Dec-21	30-Jul-21	26-Aug-21	-64															I.S.				-		
DES-1328	DES - Project Manager checking and appro works		24	07-Dec-21	06-Jan-22	27-Aug-21	24-Sep-21	-84															-	-			11		
	emp working platform for Bridge S2 I			25-Sep-21	06-Jan-22	09-Mar-21	29-Apr-22	87	0.00																				
DES-1330	DES - Prepare preliminary proposal submit	sion	36	25-Sep-21	06-Nov-21	09-Mar-21	23-Apr-21	-163						_					-										
DES-1332	DES - ICE checking and approval			09-Nov-21	06-Dec-21	01-Har-22	28-Mar-22	87		1										-									
DES-1334	DES - Project Manager checking and appro works	val; consent to start the Portal	24	07-Dec-21	06-lan-22	29-Mar-22	29-Apr-22	87															-			1			1
Current Mi Actual Vito Cotical Rem Remaining	ark. maaraing Wook:	Central Ko	owloo				t (Monti ng Prog			te) (I	Rev2	3 - C	SD)		Baseline: Layout: K	CTE - 3 Mk SK filters	onths Ro	iling Pro		- Submi	ssion.		Dati 21-Jun-21 30-Jun-21 30-Jun-21 30-Jun-21 30-Jun-21 30-Jun-22 20-Jun-22 20-Jun-22 20-Jun-22 20-Jun-22 20-Jun-21	Sub Mon 1 Sub 1 Sub 1 Sub	nil CSD Pro Inly Program nil CSD Pro Inly Program nil CSD Pro Inly Program nil CSD Pro	ma M26 gramma Rev ma M27 gramma Rev ma M28	/21	The Twy Twy Twy Twy Twy Twy Twy	ded App 0C 0C 0C 0C 0C 0C 0C 0C 0C 0C 0C

	Activity Name	Ong Dur	Stad	Finish	Lute Stat	Late Finish	Total Filoat	TR (Da)	September 29	October 30	November 31	December 32		January 30
DES_T16 - EL	S Design for Bridge S7 - 7B-S7 to 7D-S7	65	09-Nov-21	26-Jan-22	24-Apr21	13-3-4-21	-163	0.0	2 29 05 12 19	26 03 10 17 24 31	07 14 21 2	8 (6 12 18	28 02 1	99 16 23
ES-1372	DES - Prepare preliminary proposal submission	36	09-Nov-21	20-Dec-21	24-Apr-21	07-Jun-21	-163					_		
0E5-1374	DE5 - ICE cheating and approval	5	21-Dec 21	28 000 21	08-Jun-21	12-Jun-21	-163							
DES-1376	DES - Project Manager checking and approval: consent to start the ELS works		29-Dec-21	26-Jan-22	15-Jun-21	13-3-4-21	-163							
			09409-21	10-Feb-22	21-Mar-22	20-Jun-22	104	0.0						
	S Design for Bridge S8 - 8A-S8 to 8D-S8							.0.0						
DES-1378	DES - Prepare preliminary proposal submission		09-Nov-21	20-Dec-21	21-Mar-22	06-May-22	104							
DE5-1390	DES - ICE checking and approval	12	21-Dec-21	06-Jan-22	07-Nay-22	21-May-22	104							
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24	07-Jan-22	10-feb-22	23-May-22	20-Jun-22	104						-	
S - Tempor	ary Works for Underpasses, Adiit and Roads	122	25-Sep-21	26-Feb-22	16-Apr-21	25-Nov-21	-71	0.0						
ES_TO8 - Te	emp works for construction of Sign Gantries, Lighting Poles &	86	09-Nov-21	26-Rib-22	14 Aug 21	25-Nov-21	-71	0.0						
DES-1390	DES - Prepare preliminary proposal submission	36	09-Nov-21	20-Dec-21	14-Aug-21	25-5ep-21	-71				-			
DE5-1392	DES - ICE checking and approval	26	21/Dec/21	22-Jan-22	27-Sep-21	28-Oct-21	-71						-	_
ES-1394	DES - Project Manager checking and approval; consent to start the works	24	24-Jan-22	26-Feb-22	29-0d-71	25-Nov-21	-71							
ES_T10 - Te	emporary works for Traffic Deck over Underpass S3	48	25-5ep-21	22-Nov-21	16-Apr-21	12-Jun-21	-134	0.0						
x5-1404	DES-ICE checking and approval		25-Sep-21	25-06-21	16-Apr-21	14-May-21	-1.34							
ES-1406	DES - Project Manager chediing and approval; consent to start Underpass 53		26-06-21	22-Nov-21	15-May-21	12-Jun-21	-134							
ISTRUCT			25-Hor-21 A	20400.22	10-0ec20	12-401-23	279	711-0						
	orary Traffic Management Scheme													
	ior Kai Fuk Road		21-Aug-21 A	12-lan-22	07-Aug-21	07-Aug-21	-129	0.0						
RTTA-1	TTA - Kai Fuk Road - Stage 1	0	21-Aug-21 A		07-Aug-21									
R-TTA-1.1	TTA - Kai Fuk Road - Stage 1.1	0	16-Dec-21		07-Aug-21		-109					•		
RTTA-1.2	TTA - Kai Fuk Road - Stage 1.2	0	05:Jan-22		07-Aug-21		-123							
R-TTA-1.3	TTA - Kei Fuk Road - Stage 1.3	0	12-3an-22		07-Aug-21		-129							•
ction 1 - A	II the Works of the Site, except Section 2 to 17	277	19 May 21 A	2010/22	10-Dec20	12.4pr-13	279	509.0						
h_1 Prelimi	naries Works	273	25-May-21-A	28-Apr-22	04-Jun-21	18-Sep-21	-174	93.0						
ite Establish	ment Works	273	25-May-21 A	28-Apr-22	04-3an-21	18-Sep-21	-174	93.0						
Temporary st	teel platform over Kai Tak River	273	25-May-21 A	28-Apr-22	04-Jan-21	18-Sep-21	-174	93.0						
DIA Stage 1			02.000.21	194 100 22	(CE-A)(-21	0.466-21	1106	1.0						
1-2036	SE(Slage 1) - Install F3 concrete block and dedking for Portion 1 (S1)		02-Dec-21	29-lan-22	07-Ap+21	03-km-21	-199	6.0						
			J. P.L.II											
DIA Stopy 2 1-2324A			14 14 24 2	242424	12 hrs 71	COLUMN I		3.0						
	SE(Stage 2a) - Rubar installation; for slab reinstatment at 1E-S1		14-Jul-21 A			12-Jan-21								
1-2058	SE(Stage 2a) - Extract existing sheetple within pile 1E-S1; (ind unforseen sheetpile PME 307)		24-301-21 A			12-Jan-21		3.0						
1-2058A	SE(Stage 2a) - outercasing installation for 1E-51; siab reinstatement RC works	8	08-Aug-21 A	27-Aug-21 A	12-Jan-21	12-Jan-21		3.0						
NUA Stoge 2														
1-2048	SE(Stage 2) - Coring & Temporary pre-grouting for ORE+IS (2 ms)	74	18-Jun-21 A	17-Sep-21 A	04-Jan-21	04-Jan-21		9.0						
1-2046A	SE(Stage 2) - Reber installation; for siab reinstatment at 3E-S3	9	04-Aug-21 A	12-Aug-21 A	14-Jan-21	14-Jan-21		3.0						
1-2060	SE(Stage 2) - Extract existing sheetpile within pile 3E-51	15	13-Aug-21 A	24-Aug-21 A	14-Jan-21	14-Jan-21		3.0						
1-2060A	SE(Stage 2) - outercasing installation for 3E-53	6	25-Aug-21 A	28-Aug-21 A	14-Jan-21	14-3an-21		3.0						
	The second secon					11			Less Lind In discussion			Date	Revision	Checked
Current Nil		wles	n Pout	o Koli	Tak Eco	t /Month	. 20	Ind	ate) (Rev23 - CSD)	Project ID: KTE-WP23_M29 Baseline:		21-Jun-21 Submit CSD Progra 35-Jun-21 Monthly Programm	mma Ray 20	TVY 00 TVY 00
Critical Rem	raring Wok	WIO				ing Prop			ate) (Rev23 - CSD)	Layout: KTE - 3 Months Rolling Program	me	25-3421 Submit CSD Progr	erms Rev 21	TWY DO
Remaining	Work		in	ee won	ul Rolli	ing Prog	pam	ne		Filter: TASK filters: 3 Months Rolling_1,		35-34-21 Monthly Programm 26-Aug-21 Submit CSD Progra	mme Rev 22	TVY 00 TVY 00
												25-Aug-21 Monthly Programm		1111 DC 1111 DC

	Activity Name	Orig Dur	Stad	Fisiin	Late Stat	Lote Finish	Total Float	TRA (Day)	29 29 05 12 19 1	26 0 0	0 17 24 31	November 21 07 14 21	28 06 1	December 32 12 19 39	02 06	January 30 1 16 T 2	23
1-2048A	SE(Stage 2) - Robar installation; for slab reinstatment at OVRE-KS	9	17-Sep-21 A	25-Sep-21	04Jan 21	04-3an-21	-211	3.00									-
1-20488	SE(Slage 2) - outercasing installation for OVRE-KS	8	25-Sep-21	05-0d-21	05-lan-21	13-3an-21	-211	3.00		-							
DIA Stegn 4		1.14	25 Meril A	28/00228	CT 540-51	35 Mezza	17	41.01									
1-2326	SE(Stage 4) - Coring & Temporary pre-grouting for 4K-S4-A (2 nm)	72	25-May-21 A	02-Sep-21 A	01-Feb-21	01-Feb-21		9.00									
1-2325	SE(Stage 4) - Coring & Temporary pre-grouting for CKRW4K5 (2 nr)	60	10-3un-21 A	25-5ep-21	08-Feb-21	08-Feb-21	-181	9.00									
1-2327	SE(Stage 4) - Coring & Temporary pre-grouting for 4K-S4-8 (2 mis)	66	03-Jul-21 A	11-0d-21	23-Feb-21	09-Mar-21	-175	9.00		_							
1-2326A	SE(Stage 2) - Rebar installation; for siab reinstatment at 4K-S4-A	10	02-Sep-21 A	08-5ep-21 A	01-Feb-21	01-Feb-21		3.00	-								
1-2326C	SE(Stage 4) - Identification of unchated hard material at bore pile nos.	6	09-Sep-21 A	23-Sep-21 A	01-feb-21	01-Peb-21											
1-23268	4K-S4-A-182 (PMI 306) SE(Stage 2) - outercasing installation for 4K-S4-A	32	24-Sep-21 A	02-0d-21	01-Feb-21	05-Feb-21	-188	3.00		-							
1-2325A	SE(Stage 2) - Reber installation; for side reinstatment at O/RWKS	4	25.5ep-21	29-5ep-21	09-Fab-21	19-Feb-21	-181	3.00									
1-23258	SE(Stage 2) - outercasing installation for O/RWHKS		30-5ep-21	09-0d-21	20-Feb-21	01-Mar-21	-181	3.00		Common State							
1-2327C	SE(Stage 4) - Identification of unchated hard material at bore pile nos.		12-0021	19:04:21	10-Mar-21	16-Mar-21	475		14 8 8 8 8								
1-2327A	4K-54-B122 (PMI 203) SE(Slage 2) - Reber installation; for ske neinstatment at 4K-54-8		20-06-21	23:04:21	17-Mar-21	20-Nar-21	-175	3.00	n de parte de la companya de la comp								
1-23278	SE(Stage 2) - outertaking installation for 4K-54-B	1	25-00-21	28-0d-21	22-Mar-21	25-Mar-21	-175	3.00									
				200133				1.00		-							
1-2333	SE(Stage 5) - 2021/2022 - Dry station start (1 Oct 2021)		02-06-21*		27-Jan-21		-197	3.00									
1-2337	SE(Stage 5) - Remove cofferdam for 1D; erect F3 platform (1 nos)	18	11-%0+21	01-Dec-21	27-Jan-21	23-Feb-21	-230					-	-				
1-2334A	SE(STage 5) - Fabrication of concrete bills and dedk (on-site)	120	25-Nov-21	28-Apr-22	28-Apr-21	18-Sep-21	-174						- Contraction				-
1-2334	SE(Stage 5) - Install F3 concrete block and dicking for Portion 2 (S1/S3/CKRE)	60	02-0xe-21	19-Rtb-22	24-Rab-21	10-May-21	-230	6.00					Concession of the local division of the loca				-
h_3.1 Bridg		167	12-Jul-21 A	15-Jan-22	043an-21	10-May-21	-206	16.00									
1 - Piling Wo	ortes	76	14 Aug-21 A	25-0d-21	04-lan-21	30-Mar-21	-168	4.00									
Piling Works	- Pier P-1E-51	76	02-Sep-21 A	250d21	12-Jan-21	30-Mar 21	-166	4.00									
3.1-2304	S1 -Bond Piles for 1E-S1-1 (1 m)	45	02-Sep-21 A	27-Sep-21 A	12-Jan-21	12-3an-21		4.00			*****)		******	-1+1		**
3.1-2306	St - 1E-S1 Proof drilling & Piles testing	24	25-Sep-21	25-0d-21	03-Mar-21	30-Mar-21	-168	0.00		_	_						
Pilling Works	- Pier P-1D-S1/S9-A	24	14-Aug-21 A	21-Aug-21 A	04-Jan-21	04-Jan-21		0.00									
3.1-2314	S1 - 1D-51/59-1 Proof drilling & Piles testing	24	14-Aug-21 A	21-Aug-21 A	04-3an-21	04-3m-21		0.00									
1 - Pile Caos	, Pier / Abutment	129	12-3ul-21 A	29-Nov-21	26-Mar-21	10-May-21	-168	10.00									
Abutment 1A		109	12-30+21 A	05-Nov-21	26-Mar-21	10-May-21	-148	7.00	and and the state of a								
3.1-2326	S1 - Construct Abutment Base A-1A-S1			05-Aug-21 A		26-Mar-21		3.00									
11,21264	S1 +A-1A-S1 (base)inital Permeate Nambone and Baddil			18-Sep-21 A		26-Mar-31		24.5									
3.1-2328	S1 - Construct Abutment A-1A-S1		10000	100.000			-148	3.00									
			256ep-21	25-0d-21	26-Mar-21	27-Apr-21		3.00		1.1							
3.1-2330	S1 - A-1A-S1 Install Permette Hembrane and Baddill		26-06-21	05-Nov-21	28-Apr-21	10-May-21	-148	1.00									
Ner 1E-51	participation of the second		26-00-21	29-Nov-21	31-Mar-21	10-May-21	-168	3.00									
3.1-2332	S1 - Prepare Pile Head for 1E-S1 inside coffedam		26-06-21	08-Nov-21	31-Mar-21	17-Apr-21	-168	1.00									
3.1-2334	SI - Construct Pier 1E-SI (2 Life)		09-Nov-21	29-Nov-21	19-Apr-21	10-May-21	-168	2.00									
1 - Deck		0	15-Jan-22	15-Jan-22	10-May-21	10-May-21	-206	2.00									
51 - Span 1E-	1D	0	15-Jan-22	15-km-22	10-May-21	10-May-21	-206	2.00									
3.1-2368	Completion of Pier/Portal ID-51 / 59	0		15-Jan-22		10-May-21	-206	2.00								•	
		21		h	-		11						Date	Rent		1 Owner 1	-
Current Na	2014 TO 1014	·			Tal E-		- 20 -	land -	(D22)	Project ID: Baseline:	KTE-WP23_M29		21-Jun-21 35-Jun-21	Submit CSD Programma Monitry Programma M30	Rev 20	Chaded Tvy Tvy	DC DC
Critical Rem	Central I	NOWIOG				ing Prop			(Rev23 - CSD)	Layout KT	E - 3 Months Rolling Programme		20-8421	Submit CSD Programme	Rev 21	TV97	DC:
Remaining	Work		in	ee wor	iui koli	ing Prot	gram	ne			K filters: 3 Months Rolling_1, KTE	- Submission.	35-34-21 20-Aug-21	Monthly Programme M27 Submit CSD Programme	Rev 22	TYP	0C 0C
													25-Aug/21	Monthly Programme M28	1	DO:	DC

vity ID	Activity Name	Orig	Dur 3	lint.	Fisiin	Late Stat	Late Finish	Total Float	TR (Da	A September	Cetchar N 30	aventer 31	D	oother 32	3	nusy 33	_
Sch_3.2 Bridg	e S2 Works		79 04-3	in-21 A	0444a-22	26-Jun-21	05-34-22	96		2 29 05 52 19	26 03 10 17 24 31 07	14 21 2	66	12 18 28	60 90	16	23 3
S2 - Piling We			76 04-3		25-0d-21	26-Jun-21	12-Nar-22	110		0							
Piling Works			24 256		250d21	27-Aug-21	24-Sep 21	-24	0.0								
3.2-2502	S2 - 2A Proof drilling & Pilesteeting				25-06-21			-24	0.0								
			24 254			27-Aug-21	24-Sep-21	-224									
Piling Works			24 02-)		29-3u#21 A	21-5ep-21	21-Sep-21		0.0								
3.2-2506	52 - 28 Proof difling & Piles testing		24 02-3		29-3:4-21 A	21-5ep-21	21-Sep-21		0.0								
Piling Works			24 04-3		27-5ep-21	11-Mar-22	12-Mar-22	132	0.0								
3.2-2514	52 - 2D Proof chilling & Piles testing				27-Sep-21	11-Mar-22	12-Mar-22	132	0.0								
Piling Works				-	30-Aug-21 A		26-Jun-21		0.0								
3.2-2518	52 - 2E Proof drilling & Piles testing			1.00	30-Aug-21 A		26-Jun-21		0.0								
Piling Works			24 255	5ep-21	25-0d-21	24-301-21	20-Aug-21	-53	0.0	0							
3.2-2522	52 - 2F Proof drilling & Piles testing		24 256	5ep-21	250d21	24-Jul-21	20 Aug-21	-53	0.0	o							
S2 - Pile Caps	, Pier / Abutment	13	155 23-A	19-21.A	04-Mar-22	26-Jun-21	05-3ul-22	98	63.0	0							
Pier 2A			68 024	Dec21	01-Mar-22	25-5ep-21	15-0ec21	-56	7.0	o							
3.2-2532	S2 - Install sheetpile for pile cap 2A		5 024	Dec-21	07-Dec-21	25-Sep-21	30-Sep-21	-50	1.0	0			-				
3.2-2534	S2 - Excevation down to formation level C-2A		10 084	Dec-21	18-Dec-21	02-0ct-21	13-0d-21	-96	0.0	0			-				
3.2-2536	S2 - Prepare pile hood (2 nrs) 2A		9 204	Dec-21	31-0ec23	15 Oct-21	25-0e-21	-56	1.0	0				-			
3.2-2538	52 - Construct pile cap C-2A		15 03-	lan-22	19-Jan-22	26-0:2-21	11-Nov-21	-56	2.0	0					_	-	
3.2-2540	S2 - Construct Pier P-2A (3 Lifts)		29 20-	tan-22	01-Mar-22	12-Nov-21	15-0ac-21	-56	3.0	0						-	
Pier 2B			71 02-0	Dec 21	04Mar22	21-5ep-21	15-Dec21	-59	9.0	o							
3.2-2542	S2 - Install sheetpile for pile cap 2B		6 024	Dec21	08-Dec 21	21-Sep-21	28-Sep-21	-59	1.0	0							
3.2-2544	52 - Excavation down to formation level C-2B		12 094	00021	22-00021	29-5ep-21	13-00-21	-59	2.0	0			-				
3.2-2546	S2 - Prepare pile head (2 res) C-28		9 234		05-Jan-22	15-0:0-21	25-Oct-21	-59	1.0	0				_	-		
3.2-2548	S2 - Construct pile cap C-28		15 06-	lan-22	22-Jan-22	26-0ct-21	11-Nov-21	-59	2.0	0					-	-	
3.2-2550	S2 - Construct Pier P-28 (3 Life)		29 24-		04-Mar-22	12-Nov-21	15-Dec-21	-59									-
Pier 2CL/2CR			111 23-A		05-10-22	27-609-21	14-Nar-72	52		0							
3.2-2554	52 - Excevation down to formation level 201/20R		11 23A		23-Sep-21 A		27-800-21	100	2.0								
1.2-2556	S2 - Prepare pile head (4 ms) C-2CR & C-2CL		17 25-54		12-0ct-21	27469-21	13-Dec-21	52									
3.2-2558	52 - Construct pile cap C-20R		11 134		26-0d-21	14-Dec 21	28-Dec-21	52									
3.2-2560	52 - Construct pile cap C-2CL		10 274		06-Nov-21	21-Jan-22	08-Reb-22 08-Feb-22	71	2.0								
1.415.65.645	52 - Construct Pier P-2CR (3 Lifts)		29 274			29-Dec-21							i i				
3.2-2564	S2 - Construit Pier P-2CL (3 Ufb)		29 30-8		05-Jan-22	09-Feb-22	14-Mar-22	52						Ť			
Pier 2DL/2DF			82 08-0		21-Feb-22	14-Mar-22	05-Jul-22	108									
3.2-2566	S2 - Install sheetpile for pile oxp 2DL/2DR		6 08-9	222.52	13-Nov-21	14-Mar-22	19-Mar-32	99	1.0	i and a state of the second states in							
3.2-2568	S2 - Excavation down to formation level 2DIU/2DR		11 154		26-Nov-21	21-Har-22	01-Apr-22	99									
3.2-2570	S2 - Prepare pile head (4 nrs) C-2DR & C-2DL		17 274	kw-21	16-Dec-21	02-Apr-22	26-Apr-22	99	1.0	0		E	1				
3.2-2572	S2 - Construct pile cap C-2DR		9 174	Dec 21	29-Dec-21	27-Apr-22	07-May-22	99	1.0	0							
3.2-2574	52 - Construct Pier P-2DR (3 Lifts)		29 304	Dec21	09-Feb-22	01-Jun-22	05-34-22	118	3.0	0							
Current Mil	k. natriting Wook	Central Kowl	oon F				t (Monti ng Prog			ate) (Rev23 - CSD)	Project ID: KTE-WP23_M29 Baseline: Layout KTE - 3 Months Rolling Programme Filte: TASK filters: 3 Months Rolling_1, KTE - Sub Page 4 of 16	mission.	Date 21-3m-21 35-3m-21 25-34-21 35-34-21 35-34-21 25-Aug-21 25-Aug-21 25-Sep-21	Renion Subrat CSD Programme Rev Monthly Programme Not Subrat CSD Programme Rev Monthly Programme Rev Monthly Programme Rev Monthly Programme Rev Subrat CSD Programme Rev	/21	Decleo Twy Twy Twy Twy Twy Twy Twy Twy	6 Approx 0C 0C 0C 0C 0C 0C 0C

	Activity Name	Ong	Dur Staat	Finish	Late Stat	Late Finish	Total Float	TRA (Day)	September 29 28 05 45 45	0cb 20		November 21 07 44 5 5	1 36 T P	December 32 12 14	38 00	Januar 30
3.2-2576	52 - Construct pile cap C-2DL		10 30-Dec 21	11-Jan-22	10-May-22	20-May-22	99	2.00					AV W	A 19	C	
3.2-2578	52 - Construct Pier P-2DL (3 Lifts)		29 12-3an-22	21-6:6-22	21-May-22	24-Jun-22	99	3.00			e and private and					
Pier 2EL/2ER			94 25 Sep 21	18-Jan-22	26-Jun-21	24-Jun-22	122	13.00								
3.2-2580	S2 - Install sheetpile for pile cap 2EL/2ER		7 25-Sep-21	04-04-21	26-Jun-21	05-3:4-21	-76	1.00		-						
3.2-2582	52 - Excavation down to formation level 2EL/2ER		13 05-00-21	20-0:0-21	06-3uH21	20-364-21	-76	2.00		-						
3.2-2584	S2 - Prepare pile head (3 nm) C-2ER & C-2EL		13 21-00-21	04-Nov-21	21-301-21	04-Aug-21	-76	1.00			-					
3.2-2586	52 - Construct pile cap C-2ER		12 05-Nov-21	18-Nov-21	05-Aug-21	18-Aug-21	-76	2.00				_				
3.2-2588	52 - Construct pile cap C-2EL		12 19-%av-21	02-Dec-21	19-Aug-21	01-Sep-21	-76	2.00					100			
1,2-2590	52 - Cooknut Pix P-2FR/2 Lifes)		20 19-Nov-21	11-Dec-21	26-401-22	20-May-22	122	2.00								
3.2-2592	52 - Construct Pier P-2EL (3 Lifts)		29 13Dec21	18-Jan 22	21-May-22	24-Jun-22	122	3.00								
	27 - Construct Her Przec (3 Lins)							167						-		
Abutment 2F			58 26-00-21	04-Jan-22	21-Aug-21	30-0d-21	-53	7.00			an a					
3.2-2596	52 - Excavation down to formation level A-2F		11 26-0021	06-Nov-21	21-Aug-21	02-Sep 21	-53	2.00			-					
3.2-2598	52 - Prepare pile head (3 nm) A-2F		13 08-Nov-21	22-Nov-21	03-5ep-21	17-Sep-21	-53	1.00								
3.2-2600	52 - Construct Abutment Base A-2F		14 23-%cre21	08-040-21	18-5ep-21	06-Odb-21	-53	2.00								
3.2-2602	52 - Construct Abutment A-2#		20 09-Dec-21	04-Jan-22	02-0ct-21	30-Oct-21	-53	2.00								
ch_3.3 Bridge !	53 Works	1	54 30-3un-21 A	27-Jan-22	14-Jan-21	19-Nov-22	237	24.00								
i3 - Piling Work	6		60 09-5ep-21 A	30-Nov-21	14-Jan-21	30-Sep-22	243	4.00								
Piling Works - P	fer P-3E-53		60 09-Sep-21 A	30-Nov-21	14-Jan-21	30-Sep-22	243	4.00								
3.3-2804	S3 - Bored Piles for 3E-S3 (1 nr)		36 09-Sep-21 A	02-Nov-21	14-Jan-21	23-Rdb-21	-205	4.00		-						
3.3-2806	53 - 3E-53 Proof drilling & Piles testing		24 03-Nov-21	30-Nov-21	02-5ep-22	30-Sep-22	243	0.00								
Piling Works - A	BUT A-3D-53		24 255ep-21	250421	11-Aug-22	07-Sep-22	255	0.00								
3.3-2814	53 - ABUT A-3D-53 Proof delling & Piles testing		24 255ep-21	25-0d/21	11-Aug-22	07-540-22	255	0.00								
	fier / Abutment		54 30-3m-21 A		06-Aug-21	19-Nou-22	237	20.00								
Abutment 3A-S			83 30-Jun-21 A		06-Aug-21	10-Sep-21	-42	7.00								
3.3-2824	S3 - Construct Abutment Base A-3A-S3		21 30-Jun-21 A		San	09-Aug-21		3.00								
3.3-2822A	S3- A-3A-S3 (base) Install Permette Membrane and Bac	dil	18 19-Aug-21 A	27-Sep-21	05-Aug-21	07-Aug-21	-42									
3.3-2826	53 - Construct Abutment A-3A-53		19 28-Sep-21	21-04-21	09-Aug-21	30-Aug-21	-42	3.00							1, 1	
3.3-2828	53 - A-3A-53 Install Permeate Membrane and Baddfli		10 22-00-21	02-Nov-21	31-Aug-21	10-Sep-21	-42	1.00								
Pier 3E-53			41 01-Dec 21	20-Jan-22	03-0d-22	19-Nov-22	243	9.00								
3.3-2830	53 - Prepare Pile Head for 3E-53		5 01-Dec-21	06-00021	03-0ct-72	08-Oct-22	243	1.00								
3.3-2834	53 - 3E-53 Reinstatement of Slab of Kai Tak River		18 07-Dec21	29 000 21	10 Oct 22	29-Oct-22	243	6.00					-			
3.3-2832	53 - Construct Pier 3E-63 (2 Lifts)		18 30-Dec-21	20-Jan-22	31-0d-22	19-Nov-22	243	2.00							c	_
Abutment 3D-S	3		34 16-Dec21	27-Jan-22	(6-5ep-22	20-0d-22	211	4.00								
3.3-2646	53 - Prepare pile head (3 nm) A-3D-53		13 16-Dec-21	03-Jan-22	08-5ep-22	23-Sep-22	211	1.00						Last .	-	
3.3-2848	53 - Construct Abutment Base A-3D-53		21 04-3an-22	27-Jan-22	24-5ep-22	20-0et-22	211	3.00								
ch_3.4 Bridge !			32 16-Aux-21 A		(6-feb-21	14-Mar-22	21	39.00								-
1 States																
54 - Piling Work			13 25-5ep-21	16-Feb-22	06-Feb-21	29-Dec-21	-35	16.00								
Piling Works - P	fer P-4K-54-A		76 01-Nov-21	31-Jan-22	08-Rab-21	25-Nov-21	-54	8.00								
	9.50 (U							_					Date		Revisor	
Current Milesto		Central Kowle	on Rout	e - Kai	Tak Fas	t (Mont	h 29 I	pda	(Rev23 - CSD)	Project ID: KTE-) Baseline:	WP23_M29		21-Jun-21 30-Jun-21			_
Otical Remain	24 S 442 S 5	o official recown			th Roll				(10120-000)	Layout KTE - 31	Months Rolling Program		20-34-21 30-34-21	Submit CSD Progr Monthly Programm	terrine Rev 21	_
Remaining Wo	26									Filter: TASK filter	rs: 3 Months Rolling_1, I	(TE - Submission.	20Aup2	1 Submit CSD Progr	amme Rev 22	_
										Page 5 of 16			25-Aug-2	1 Monthly Programm	10 1628	

i0	Activity Name	Ong Dur	Stat	Finish	Late Stat	Late Finish	Total Float	TRA (Dey)	September 29	Octobar Nexember December Jensey 30 31 32 33
3.4-3024	54 - Bored Piles for 4K-54-A-2 (1 nr)	36	01-Nov-21	11-0ec21	(8-Rib-21	27-Mar-21	-211	4.00	2 29 05 12 19	30 30 31 32 33 33 32 33 33 32 33 33 32 33 33 32 33 33
3.4-3028	54 -4K.64-A-2 Ptool drilling & Piles testing		13-040-21	12-lan-22	29-Oct-21	25-Nov-21	-38	0.00		
3.4-3016	54 - Bond Piles for 4K S4-A-1 (1 nr)		17-Dec21	31Jan-22	15 Apr 21	28-May-21	-204	4.00		
	Pier P-4K-54-8		05-Nov-21	16-Feb-22	26-Mar-21	29-Dec-21	-35	8.00		
3.4-3026	54 - Bored Piles for 4K-S4-B-2 (1 nr)	36	05-Nov-21	16-Dec-21	26-Mar-21	12-499-21	-181	4.00		
3.4-3018	54 - Bond Pilesfor 4K-54-8-1 (1 nr)	36	22-Dec-21	11-Feb-22	18-May-21	30-Jun-21	-181	4.00		
3,4-3030	54 - 4K-54-8-1 Proof drilling & Piles testing	24	13-Jan-22	16-Feb-22	30-Nov-21.	29-Dec-21	-35	0.00		
Piling Works -	Pier P-4E-54	24	25-Sep-21	25-0d-21	27-feb-21	26-Mar-21	-171	0.00		
3,4-3034	54 - 4E-54 Proof diffing & Piles testing	24	25-Sep-21	25-0d-21	27-feb-21	26-Mar-21	-171	8.00		
Piling Works -	Pier P-4F-54	24	26-0021	22-Nov-21	27-Mar21	28-Apr-21	-171	0.00		
3.4-3038	54 - 4F-54 Proof drilling & Piles testing	24	26-00-21	22-Nov-21	27-Har-21	28-Apr-21	-171	0.00		
Piling Works -	Rer P-43-54	24	23-Nov21	20-Dec-21	29 Apr 21	28-May 21	471	0.00	10 10 10 10	
3.4-3046	S4 - 43-S4 Proof drilling & Piles testing	24	23-Nov-21	20-Dec-21	29-Apr-21	28-May-21	-171	0.00		
E4 - Die Cane	Pier / Abutment		16 Aug 21 A	17-Feb-22	25-Jun-21	14-Mar-22	21	23.00		
Pier 4B-54-A			16-Aug-21 A		25-Jun-21	26-Jun-21	-77	5.00		
3.4-3066						25-km-21	30	3.00		
	54 - Construit Pile Cap 48-54-A		16-Aug-21 A							
3.4-3068	54 - Construct Pier 48-54-A (2 Lifts)		02-5ep-21 A		25-Jun-21	26-Jun-21	-77	2.00		
Pier 4B-S4-B		BI	16-Aug-21 A	27-Sep-21	28-Dec-21	29-Dec 21	76	4.00		
3.4-3076	54 - Construct Pile Cap 48-54-8	17	16-Aug-21 A	01-Sep-21 A	28-Deo21	28-Dec-21		2.00		
3.4-3078	54 - Construct Pier 48-54-8 (2.1.0%)	18	02-Sep-21 A	27-Sep-21	28 Dec 21	29-Dec-21	76	2.00		D
Pier 4E-54		96	16-08-21	15-5eb-22	31-Dec21	14-Mar-22	23	5.00		
3.4-3107	54 - Install sheet pile for pile cap 4E-54	8	16-00-21	25-0d/21	31-Dec21	10-300-22	63			
3.4-3109	S4 - Excavation down to formation level	6	26-049-21	01-Nov-21	11-Jan-22	17-3an-22	63			
3.4-3108	S4 - Prepare Pile Head (1nr) for 4E-S4	5	18-Dec-21	23-0ec-21	18-Jan-22	22-Jan-22	23	1.00		
3.4-3110	S4 - Construct Pile Cap 4E-S4	17	24Dec21	15-Jan-22	24-Jan-22	18-Feb-22	23	2.00		
3.4-3112	54 - Construct Piler 4E-54 (2 Lifts)	20	17-Jan-22	15-Peb-22	19-Rdb-22	14-Nar-22	23	2.00		
Pier 4G-S4			15-bn-22	12-Feb-22	21-feb-22	14-Mar-22	Z	8.00		
3.4-3132A	54 - Construct Pier 4G-54 (2 Ufts)	19	15-Jap-22	12-Feb-22	21-Feb-22	14-Mar-22	25			
Pier 4J-54	ar , serve extra the property		06-0021	17Feb-22	12-Aug-21	19-00-21	-95	9.00		
3.4-3136	54 - Install sheet pile for pile cap 43-54		05-0:021	15-0d-21	12-Aug-21	20-Aug-21	-45	4.00		
3.4-3137	54 - Excavation down to formation level		16-0021	22-0d-21	21-Aug-21	27-Aug-21	-45			
3.4-3138	S4 - Prepare Pile Head (1 nr) for 43-S4	5	21-Dec-21	28-Dec-21	28-Aug-21	02-Sep-21	-95	1.00		
3.4-3140	54 - Construct Pile Cap 43:54	17	29-Dec-21	18-Jan-22	03-5ep-21	23-Sep-21	-95	2.00		
3.4-3142	54 - Construct Pier 43-54 (2 Lifts)	20	19-Jan-22	17-Feb-22	24-5ep-21	19-Oct-21	-95	2.00		
Sch_3.5 Bridge	s 7 Works	156	18-5ep-21 A	25-Feb-22	10-Dec-20	13-May-21	-282	13.00		
S7 - Piling Wo	rks	156	18-Sep-21 A	25-Feb-22	10-Dec-20	13-May-21	-282	13.00		
Piling Works -	Rer P-78	156	18-Sep-21 A	25-Feb-22	10-Dec-20	13-May-21	-282	13.00		
3.5-3400-2	57 -Bond Piles for 78-57-2 Part 1 (upto - 87.45mPD) (CNCE	0045) 76	185ep 21 A	03-Dec-21	10-Dec:20	21-Feb-21	-282	7.00		
Unrent Mile	aone								di.	Project ID: KTE-WP23 J029 Date Project ID: KTE-WP23 J029 Doctor Transition Toy Toy Transition Toy
Actual Vice		ntral Kowloo	n Rout	e - Kai '	Tak Eas	t (Mont	h 29 l	Jpda	te) (Rev23 - CSD)	Baseline: 35.3an-21 Monthly Programme MOB TVY DC
	aining Work					ing Prog			182	Layout: KTE - 3 Month's Rolling Programme 20-04/91 Submit CSD Programme Rev 21 TVY DC Filter: TASK filters: 3 Month's Rolling, 1, KTE - Submission. 33-04/91 Monthy Programme M27 TVY DC DC 20-04/91 Submit State (State State Sta
sale rendery t										Filter: LASK litters: 3 Months Rolling_1, KTE - Submission. 20Aug-21 Submit CSD Programme Rev 22 TVV DC 25Aug-21 Monthy Programme M28 TVY DC
										Page 6 of 16 29/Sep 21 Submt CSD Programme Rev 23 TVY DC

10	Activity Name	Oig Dur	Stat	Finiti	Late Stat	Late Finish	Total Float	TRA (Day)	September 29	Octobar 30	November 31	December 32	January 33
3,5-3400-20	57 - Bond Piles for 78-57-2 Part 2 (CNCE-0045)	25	04-Dec21	28-Dep21	22-Rib 21	18-Mar-21	-282	6.00	05 12 19	26 03 10 17 24	31 07 14 21	28 06 12 18 28	02 09 16 23
3.5-3400-1	S7 - Bored Piles for 78-57-1, Part 1 (upto -74.0mPD) (CNC		29-040-21	25-Rd-22	19-Mar-21	13-May-21	-282	6.00					
Sch_3.6 Bridg					240022	28 Dec 22		500					
and the second second			16-3ul-21 A			28-Dec-22		6.00					
	, Pier / Abutment												
Pier 8C			16-301-21 A		2400.22	24-00-22		3.00					
3.6-3630	58 - Prepare pile head (2ne) C-8C-58		16-Jul-21 A		24-0d-22	24-Oct-22		1.00					
3.6-3632	58 - Construct Pile cap C-8C-58	13	26-3ul-21 A	09-5ep-21 A	24-0ct-22	24-0t-22		2.00					
Abutment 8D		20	16-Jul-21 A	23-Aug-21 A	28-Dec-22	28-Dec-22		3.00					
3.6-3638	58 - Prepare pile head (3ns) Cr80-58	13	16-Jul-21 A	24-3uF21 A	28-Dec-22	28-Dec-22		1.00					
3.5-3540	58 - Construct Abutment Base A-8D-58	14	26-3ul-21 A	23-Aug-21 A	28-Dec-22	28-Dac-22		2.00					
Sch_3.7 Bridg	e S9 Works	219	25 May 21 A	19-Feb-22	09-Jan-21	14-Sep-21	-124	45.00					
S9 - Piling Wo	orks	163	25 May 21 A	06-Dec 21	09-Jan-21	27-May-21	-161	4.00					
Piling Works	- Rer P-9A	60	25-Sep-21	06-Dec-21	09-Jan-21	26-Mar-21	-207	4.00					
3.7-3800	59 - Bond Pilos for 9A (1 nr)	36	256ep-21	08-Nov-21	09-Jan-21	26-Feb-21	-207	4.00					
3.7-3802	59 - SA Proof delling & Pilesteeting	24	09-Nov-21	06-Dec 21	27-Feb-21	26-Nar-21	-207	0.00			S		
Piling Works				02-400-21 A		28-Apr-21		0.00					
3.7-3806	59 - 96 Proof difling & Piles testing		14-30F21 A			28-4pr-21		0.00					
								0.00					
Piling Works				29-3uF21 A	27-May-21	27-May-21		- 699					
3.7-3810	59 - 9C Proof difling & Pilos testing					27-May-21		0.00					
Piling Works			25 May-21 A	05-0d-21	20-Rib-21	01-Mar-21	-177	0.00					
3.7-3816	59 - 9D Proof chilling & Piles testing	24	25 May 21 A	05-04-21	20-Rib-21	01-Mar-21	-177	0.00					
S9 - Pile Caps	, Pier / Abutment	134	05-Sep-21 A	19760-22	02-Mar21	14-540-21	-124	41.00					
Pier 9A		56	07-Dec-21	19-66-22	27-Har-21	07-Jun-21	-207	8.00					
3.7-3822	59 - Install sheetpile for pile cap 9A.	5	07-Dec-21	11-Dec-21	27-Mar-21	01-Apr-21	-207	1.00				-	
3.7-3824	59 - Exavation down to formation level C-9A	п	13-Dec-21	24-Dec-21	07-Apr-21	19-Apr-21	-207	2.00					
3.7-3826	59 - Prepare pile head (1nt) C-9A-59	5	28-Dec-21	03-Jan-22	20-Apr-21	24-Apr-21	-207	1.00					
3.7-3828	59 - Construct pile cap C-9A-59	15	04-3an-22	20-3an-22	26-Apr-21	13-Mby-21	-207	2.00					
3.7-3830	59 - Construit Pier P-9A-59 (2 Lifts)		21-3an-22	19-Reb-22	14-May-2L	07-Jun-21	-207	2.00					-
Pier 98			09-Nov-21	27-381-22	28-Ap+21	17-3-4-21	-160	8.00					
3.7-3832	59 - Install sheetpile for pile cap 98		09-Nov-21	19-Nov-21	28-Apr-21	10-May-21	-160	1.00					
3.7-3832	59 - Encuration down to formation level C-98		20-Nov-21	02-00021	11-May-21	24-May-21	-160	2.00					
						500000 8 .000.							
3.7-3836	59 - Prepare pile head (2nts) C-98-99		03-Dec-21	14-Dec-21	25-May-21	04-Jun-21	-160	1.00					
3.7-3838	59 - Construct pile cap C-9B-59		15-Dec-21	04-Jan-22	(6-Jun-21	23-Jun-21	-160	2.00					
3.7-3840	59 - Construct Pier P-98-69 (2 Lifts)	20	05-Jan-22	27-Jan-22	24-Jun-21	17-34-21	-160	2.00					
Pier 9C		69	20-Nov-21	18-Peb-22	27-May-21	17-Aug-21	-147	8.00					
3.7-3842	99 - Install sheetpile for pile cap 90	10	20-Nov-21	01-Dec-21	27-May-21	07-Jun-21	-147	1.00					
3.7-3844	59 - Ecovation down to formation level C-9C	n	02-Dec-21	14-Dec-21	(6-Jun-21	21-Jun-21	-147	2.00					
3.7-3846	59 - Prepare pile head (2ns) C-9C-99	13	15-Dec-21	31-Dec 21	22-Jun-21	07-Jul-21	-147	1.00					
Current Mile	entities -	011				110				Design ID LETT MODE 1100		Date Perison	Chacaed Appe
Adual Vior	•	Central Kowloo	n Route	e - Kai 1	ak Eas	t (Month	1 29 1	Joda	v23 - CSD)	Project ID: KTE-WP23_M29 Baseline:		21-Jun-21 Submit CSD Programma Rev 35-Jun-21 Monthly Programma M26	20 TW OC TW DC
	naihing Work					ng Prog				Layout: KTE - 3 Months Rolling		25-34-21 Submit CSD Programme Rev 35-34-21 Monthly Programme M27	
Remaining	Work			0.5 11011	ar nom					Filter: TASK filters: 3 Months Ro	ling_1, KTE - Submission.	20Aup/21 Submit CSD Programme Rev	22 TW 0C
										Page 7 of 16		25-Aug-21 Monity Programme M28 26-Sep-21 Submit CSD Programme Rev	23 ThY DC

D	Activity Name	Ong Dur	Stat	Fisih	Late Stat	Late Finish	Total Float	TRS (Day	September 29	Octobar 30	November 21 31 07 14 21	Dece	iribar 12	January 33
3.7-3848	59 - Construit pile cap C-9C-59	15 0	03-3an-22	19-Jan-22	08/04/21	24-)ul-21	-147	2.00	0 00 12 19	w 22 11 11 24	21 J.W. 14 23	N N 18	10 20 10	
3.7-3850	59 - Construct Pier P-9C-89 (2 L/hs)	20 2	20-Jan-22	18-Feb-22	26/0/21	17-Aug-21	-147	2.00						-
Pier 9D		124 06	5Sep 21 A	08 Feb 22	02-Mar-21	14-Sep-21	-114	12.00						
3.7-3856	59 - Excivation down to formation level C-9D-A (L)	10 08	5-Sep-21 A	29-04-21	02-Mar-21	24-Mar-21	-177	2.00	-					
3.7-3866	59 - Construct pile cap C-9D-B-59 (R)	8 1	12-00-21	21-0d-21	31-Mar-21	13-4pr-21	-157	1.00						
3.7-3860	59 - Prepare pile head (1nr) C-9D-A-59 (L)	5 3	90-04-21	04-Nov-21	25-Mar-21	30-Mar-21	-177	1.00			-			
3.7-3864	59 - Construct pile cap C-9D-A-59 (L)	8 0	5-Nov-21	13-Nov-21	31-Har-21	13-Apr-21	-177	1.00			-			
3.7-3868	59 - Construct Pier P-9D-A-59 (2 Lifts) (L)	20 1	5-Nov-21	07-Dec-21	30-Jun-21	23-34-21	-114	2.00						
3.7-3870	59 - Construct Pier P-9D-8-59 (3 Lifts) (R)			13-Jan-22	24-3ul-21	26-Aug-21	-114							
3.7-3876	59 - Construct Pier Postal P-90			08-Rab-22	27-Aug-21	14-5ap-21	-114							
						1000	-180							
Abutment 4H			15-Dec 21	27-Jan-22	12-May-21	23-Jun-21					0 2 2			
3.7-3872	59 - Install sheetplie for pile cap 4H/9E			23 Dec 21	12-May-21	21-May-21	-1.80		de desenhormente a		nwoen of our	is a way		
3.7-3874	59 - Excavation down to formation level A-4H/9E			11-Jan-22	22-May-21	05-Jun-21	-1.80							
3.7-3878	59 - Prepare pile head (6ns) C-4H/9H	14 1	12-Jan-22	27-Jan-22	07-Jun-21	23-Jun-21	-180	2.00						
ich_3.8 Bridge	a S1/59 Works	269 22	A 15-WHY-SE A	15-Peb-22	10-Dec-29	28-409-21	-134	69.00						
S1/S9 - Piling	Works	269 23	2-May-21 A	21-Jan-22	10-Dec-20	28-Aug-21	-119	44.00					3 3 5	
Piling Works -	Pier P-1D-8	88 1	5-30F21 A	25-0d-21	10-Dec-20	18-Jan-21	-223	20.00						
3.8-4000	51/59 - Bored Piles for 1D-51/59-2 (1 m) (Teleszopic Casing Method)	65 1	5-Jul-21 A	14-5ep-21 A	10-Dec-20	10-Dec-20		20.00						
3.8-4002	S1/59 - 10-51/59-2 Proof drilling & Plos testing	24 2	15-5cp-21	25-0d-21	18-Dec-20	18-Jan-21	-223	0.00						
Piling Works -	Pier P-1E	24 0	9-341-21 A	23-Aug-21 A	20-Apr-21	20-Apr-21		0.00						
3.8-4006	51,/59 - 1E Proof drilling & Piles testing	24 0	9-Jul-21 A	23-Aug-21 A	20-Apr-21	20-Apr-21		0.00						
Piling Works -	Pier P-1F/7A	204 22	2 May-21 A	21-300-22	10-Dec-20	21-Jun-21	-177	12.00						
3.8-4008-1	S1/59 - Bored Piles for 17/7A-S1/59-1 Part 1 (upto -83.6mPD)	85 22	2-May-21 A	17-Sep-21 A	10-Dec-20	10-Dec-20		12.00	and an				oolaanaa ka sa ka sa	
3.8-4008-3	S1/59 - Bored Piles for 1F/7A-S1/59-1 Part 2			21-Dec-21	10-Dec-20	11-Mar-21	-282							
3.8-4010	S1/S9 - 19/7A Proof drilling & Piles testing	24 2	2-Dec-21	21-Jan-22	24-May-21	21-Jun-21	-177							
Pling Works -				25-0d-21	07-10-21	28-400-21	-46							
3.840126	S1/59 - Bored Piles for 1G-S1/59-3 (Teleszopic Casing Method) Part 2 (RCD)			05-Aug-21 A		07-34-21	1	2.00						
	constaint)													
3.8-4012-7	SL/59 - Bored Piles for 1G-S1/S9-4 (Telescopic Casing Method) Part 1 (upto -51mPD)		9-Aug-21 A			07-34-21		2.00						
3.8-4012-8	51/59 - Bored Piles for 1G/51/S9-4 (Telescopic Casing Method) Part 2 (RCD constraint)		5-Aug-21 A			07-Jul-21		3.00						
3.84014	S1/59 - 1G Proof drilling & Piles testing		15-Sep-21	25-0d-21	07-3u1-21	03-Aug-21	-68							
3.8-4013	S1/59 - Damobiliation	6 2	25-Sep-21	02-0d-21	23-Aug-21	28-Aug-21	-28	2.00		-				
S1/59 - Pile C	aps, Pier / Abutment	512 2	15-Sep-21	15-660-22	10-Dec-20	13-May-21	-223	15.00						
Pier 1D		92 2	25-5ep-21	15-3an-22	10-Dec-20	19-4pr-21	-223	12.00						
3.8-4034	51/59 - C-1D-A Reinstatement of slab of Kai Tak, River	18 2	15-Sep-21	18-0d-21	10-Dec-29	02-Jen-21	-230							
3.8-4028	S1/59 - Prepare pile head (1nr) C-1D-A-51/59	8 1	19-0@-21	27-0d-21	04-lan-21	12-3m-21	-230	1.00						
3.8-4016	S1/59 - Install sheetple for ple cap ID-B	5 2	26-0:0-21	30-0d-21	19-Jan-21	23-Jan-21	-223	1.00		-				
3.8-4030	S1/59 - Construct Pier P-1D-4/51/59 (2 Ufts)	12 2	28-00-21	10-Nov-21	13-Jan-21	26-Jan-21	-230	3.00						
3.8-4018	S1,/59 - Escavation down to formation level C1D-B-S1/59	8 0	1-Nov-21	09-Nov-21	25-Jan-21	02-Feb-21	-223	1.00						
Current Mile	tone									Project ID: KTE-WP23_M29		Date	Rention Submit CSD Processme Rev 20	Owned As
- Adual Vice Otical Rem	Central Ko	owloon							te) (Rev23 - CSD)	Baseline: Layout: KTE - 3 Months Rolling Pr	21-30-21 8 35-30-21 / 25-30-21 5	TW 00 TW 00 TW 00		
Remaining 1			Thre	ee Mor	th Roll	ing Pro	gram	me		Filter: TASK filters: 3 Months Rolls Page 8 of 16	35-34-21 F 25-44-9-21 F 25-44-9-21 F 29-540-21 F	TVY DC TVY DC TVY DC TVY DC		

0	Activity Name	Ong Dur	Stat	Finish	Late Stat	Lote Finish	Total Float	TRA (Dey)	September 29	Octobar 20	November 31	Dece wher 32	Sensey 33
3.8-4020	SL/59 - Prepare pile head (1nr) C1D-B-S1/59	5	10-Nov-21	15-Nov-21	03-Rib 21	08-Feb-21	-223	1.00	29 05 12 19	26 03 10 17 24 31	07 14 21 28	06 12 18 28	02 09 16 23
3.8-4021	\$1,59 - Construct pile cap C-1D-8-5 1/59	12	16-Nov-21	29-Nov-21	09-Rib-21	01-Mar-21	-223						
3.8 4026	51/59 - Construct Plar P-1D-8-51/59 (1 UP)	17	30-Nov-21	18 000 21	02-Mar-21	20-Mar 21	-223	2.00					
3.8-4032	S1/59 - Construct Portal P-1D-S1/59		20-Dec-21	15-Jan-22	22-Mar-21	19-Apr-21	-223	3.00				-	
Pier 1E			17-380-22	15-660-22	20-40+21	13-May-21	-223	3.00					
3.8-4036	S1/59 - Install sheetple for ple cap 1E		17-Jan-22	22-Jan-22		26-Apr-21	-223	1.00					
					20-Apr-21								
3.8-4038	S1/59 - Excavation down to formation level C-1E-S1/S9		24-Jan-22	15-Feb-22	27-Apr-21	13-May-21	-223	2.00					
\$1/\$9 - Deck			16-Sep-21 A	17-Dec-21	24-Apr-21	19-36-21	-127	10.00					
S1/59 - Span	1E-1F/1E-7A (Stage 1)	96	16-Sep-21 A	17-0ec-21	24-Apr-21	19-3-4-21	-127	10.00					
3.8-4079	S1/59 - Span 1E-1F/7A stock portal - temp footing (Kai Fuk Road) Night works	96	16-5ep-21 A	17-0eo21	24-Apr-21	19-3-4-21	-127	10.00					
Sch_3.9 Bridge	e CKRW Works	164	17-31-21 A	15-Feb-22	02-Mar-21	08-Dec-21	-50	22.00					
CKRW - Piling	Works	164	17-Jul-21 A	15-6ab-22	02-Mar21	04-Nov-21	-79	8.00					
Piling Works -	- Pier P-KS-CKRW	100	11-06-21	15-Feb-22	02-Mar-21	04-Nou-21	-79	8.00					
3.9-4200	CKRW - Bored Piles for KS-CKRW-2 (1 nr)	36	11-00-21	22-Nov-21	02-Mar-21	16-Apr-21	-181	4.00					
3.9-4204	OKRW - KS-OKRW-2 Proof drilling & Piles testing	24	23-Nov-21	20-Dec-21	07-0ct-21	04-Nov-21	-39	0.00	and the second s				
3.9-4208	OXRW - Bornd Piles for KS-OXRW-1 (1 nr)	36	27-Nov-21	11-Jan-22	22-Apr-21	04-Jun-21	-181	4.00					
3.9-4210	OXRW - KS-OXRW-1. Proof drilling & Piles testing		12-Jan-22	15-Peb-22	23-5ep-21	22-0ct-21	-90	0.00					
	ABUT A-K4-CKRW		17-3ub21 A	03-400-21 A	21-0:021	21-04-21		0.00					
3.94226								0.00					
	CKRW - ABUT A-K4-CKRW Proof drilling & Piles tasking		17-Jul-21 A	03-Aug-21 A		21-Od-21		10000					
	Caps, Pier / Abutment		22-00-21	08-Feb-22	31-Aug-21	08-Dec 21	-41	14.00					
Abutment A-			22-045-21	29-Jan-22	31-Aug-21	08-Dec-21	-42	10.00					
3.9-4230	OKRW - Excavation Down to Formation Level A-K1-OKRW	14	22-00-21	06-Nov-21	31-Aug-21	15-6ap-21	-42	2.00					
3.9-4232	OGRW - Prepare pile head (4nni) A-K1-OSRM	17	08-Nov-21	26-Nov-21	16-Sep-21	07-0d-21	-42	1.00			-		
3.9-4234	OVRW - Construct Abutment Rese A-K1-OVRW	19	27-Nov-21	18-Dec-21	08-0ct-21	30-0et-21	-42	3.00					
3.9-4236	OVRW - Construct Abutment A-K3-CVRW	26	30-Dec-21	29-Jan-22	09-Nov-21	08-Dec-21	-42	4.00					
Abutment A-	K4-CKRW	36	18-Dec-21	08-feb-22	21-0ct-21	01-Dec-21	-50	4.00					
3.9-4268	OXRW - Prepare pile hoad (4nm) A-K4-CXRW	17	18-Dec21	10-3an-22	21-0:521	09-Nov-21	-50	1.00					
3.9-4270	OXF0V - Construct Abutment Base A-K4-OXF0V	19	11-3an-22	08-Feb-22	10-Nov-ZL	01-Dec-21	-50	3.00					-
Sch 4.2 Slip R	toad Underpass S3	207	30-Jun-21 A	08-Feb-22	13dan-21	24-Jun-21	183	45.00					
1000	ed to TTA (Ramp W4-W1)	50	15-809-21	25-Jan-22	14 Apr-21	24-Jun-21	-177	13.00					
ELS for Under	Zanazi na kana kana kana kana kana kana kana		15/Woy21	10-Jan-22	14-Apr-21	08-Jun-21	-477	11.00					
4-4504	s3 - Install cofeeten		15-Nov-21	04-Dec-21			-177	6.00					
4-4504					14-Apr-21	05-May-21							
	53 - Excavation down to 0,5m below 1st waiing & strut; install waiing & strut:		06-Dec-21	17-0eo21	05-May-21	18-May-21	-177	2.00					
4-4510	53 - Excavation down to 0.5m below 2nd waling & strut; install waling & strut		18-Dec-21	05-Jan-22	20-May-21	03-Jun-21	-177	2.00					
4-4512	53 - Excevation down to final formation level		06-Jan-22	10-Jan-22	04-3un-21	08-Jun-21	-177	1.00					-
RC Structures	•	-13	11-Jan-22	25-Jan-22	09-Jun-21	24-Jun-21	-177	2.00					
Hamp WA to	WL			25-10-22	(Unit =1)			2,00					
Bay W4		13	11-Jan-22	25-Jan-22	09-Jun-21	24-Jun-21	-177	2.00					
-	() ()							_		1		Data Paris	
Current Mile					Tals F			in the	(D-1.02 00D)	Project ID: KTE-WP23_M29		21-Jun-21 Submit CSD Programme	Rev 20 TVY OC
- Otical Rem	Central Ko	owloc							(Rev23 - CSD)	Baseline: Layout: KTE - 3 Months Rolling Program:	ne	30-Jun-21 Monihy Programme M26 20-Juli 21 Submit CSD Programme	Rev 21 TVY DC
Remaining	Work		Thr	ee mon	tri Kolli	ing Prog	ramr	ne		Filter: TASK filters: 3 Months Rolling_1, M		30-34-21 Monthly Programme M27 25-Aug-21 Submit CSD Programme	

	Activity Name	Ong Dur Staat	Finish	Late Stat	Late Firish	Total Filoat	TRA (Day)	Seplamber 29	20 Dockshar Novem 30 31	æf.	December 32	January 30
4-4546	53-W4 - Construct Base data	13 11-Jan	2 25-lan-22	09-Jun-21	24-Jun-21	-477	2.00	5 12 19	26 03 10 17 24 31 07 1	1 21 28	06 12 18 28 02	09 16 23
S2 - TTA Stan	e 1 (Ramp W8-W5 & Box Section Bay B1)		A 08-6:0-22	13-Jan-21	29-May-21	-204	32.00					
S. 34843	pass (Ramp & Box Section Bay B1)		LA 24-Aug-21 A		13-Jan-21		0.00					
4-4567	53 - Excevation down to final formation level for Box Section		1 A 10-Aug-21 A		13-3m-21							
4-4567A	53 - Soil replacement (PMI-291) for Box Section		1 A 24-Aug-21 A		13-3an-21							
RC Structures		-177 30-Jun-2	LA 24-Dec-21	13-Jan-21	29-May-21	-174	30.00					
Bay B1 (L=2	10m) Pump Sump & FS Plant Room	102 25 Aug-2	LA 24-Dec-21	13-Jan-21	22-Apr-21	-201	14.00					
4-4566	53-81 - Construct Sump Pump Base slab and sump Pump wall	18 25-Aug-2	1 A 30-Sep-21 A	13-Jan-21	13-Jan-21		2.00	_				
4-4568	53-81 - Construct. Sump Pump wall & slab upto -1.084	23 25.6ep	11 23 0d 21	13-Jan-21	08-Feb-21	-204	5.00					
4-4569	53-BL - Construct Base Slab (with Plant Room)	30 25-005	1 27-Nov-21	09-Feb-21	22-Mar-21	-204				_		
4-4570	53-B1 - Constant: RC Wall & Sump Pump wall & slab upto +2.916	24 11-Nov	08-Dec21	05-Mar-21	01-Apr-21	-204	4.00					
4-4574	S3-81 - Constant: Top Slab	14 09-Dec-	1 24-0ec-21	07-Apt-21	22-Apr-21	-204	3.00					
Barrin WE to	ws	-still Weber-2		10-140-21	JUTER	1.11	Level					
Bay WS		93 145ep-2	1A 140eo21	10-Feb-21	11-May-21	-180	4.00					
4-4544	S3-W5 - Construct Base slab	13 145ep-2	on persent	1127222201	10-Feb-21		2.00					
4-4548						184	2.00					
	53-W5 - Construct Side Well (1st pour)	15 25-Sep-		17-Mar-21	07-Apr-21	-156	200					
4-4549	53-W5 - Construct Side Wall (final pour)	28 12-Nov-		08-Apr-21	11-May-21	-1.80						
Bay W6		39 30-Jun-2	1 A 13-Nov-21	10-Rdb-21	07-Apr-21	-180	4.00					
4-4540	53-W6 - Construct Base stab	13 30-Jun-2	1 A 02-Aug-21 A	10-Rib-21	10-Feb-21		2.00					
4-4542	S3-W6 - Construct Side Wall	26 04 Aug-J	1 A 11-Nov-21	10-Feb-21	07 Apr 21	-1.80	2.00					
Bay W7		62 05:002	A 06-0d21	10-Reb-21	29-May-21	-107	4.00					
4-4580	\$3-W7 - Construct Base siab	13 05-341-2	A 19-364-21 A	10-Feb-21	10-feb-21		2.00					
4-4582	S3-W7 - Construct Side Wall	18 20-3ul-2	A 06-0d-21	20-May-21	29-May-21	-107	2.00	-				
Bay W8		89 28-301-2	A 11-Nov-21	13-Apr-21	29-May-21	-137	4.00					
4-4572	S3-W8 - Construct Base slab	18 28-30-52	A 31-Aug-21 A	13-Apr-21	13-Apr-21		2.00					
4-4578	53-W8 - Construct Side Wall	39 25-Sep	1 11-Nov-21	13-Apr-21	29-May-21	-137	2.00					
Miscellaneous		30 28-Dec:		23-Apr-21	29-May-21	-204	2.00					
4-4576	53 - Box Section B1. Backfilling up to GL	30 28000		23-Apr-21	29-May 21	-204	2.00					
			3 3 3 3 3		1.000	1 124						
	ing Walls and At-grade Road Works	257 1944ay-3		04-Rdb 21	12-Apr-33	295	74.00					
Retaining Wa		211 19 May-3		04-Rtb-21		341	60.00					
RW-S1-a		84 26-065		21-Dec-22	12-Apr-23	341	14.00					
SA-5000	RW-51-a - Exavation down to formation level +2.2/+6.0	7 26-005	1 02-Nov-21	21-Dec-22	30-Dec-22	341	1.00					
5A-5002	RW-S1-e - Plate Load Test and Report	14 03-Nov-	11 18-Nov-21	31-Dec-22	17-Jan-23	341	2.00					
SA-5004	RW-51-e - Construct Base Slab (Bay 1)	7 19-Nov	21 26-Nov-21	18-Jan-23	01-Feb-23	341	1.00					
5A-5006	RW-SL-e - Construct Base Slab (Bay 2)	12 27-Nov	1 10-Dec-21	03-Feb-23	16-Feb-23	342	2.00				-	
\$4-5008	RW-S1-a - Construct Wall (Bay 1)	13 27-Nov-	11-Dec21	02-Feb-23	16-Peb-23	341	2.00			K		
SA-5010	RW-51-e - Construct Wall (Bay 2)	15 13-Deci	1 31-0eo21	17-Rib-23	05-Mar-23	341	2.00				1	
				-	-Ho-	1					Date Services	Checked #
Current Mile		ral Kowloon Ro	uto - Kel	Tak Eas	Mont	6 20	Ind	2.050	Project ID: KTE-WP23_M29 Baseline:	21-30	n-21 Submit CSD Programma Ray 20	TW OC TW DC
- Otical Rem	aring Wok		ute - Kai hree Mor					3-030)	Layout: KTE - 3 Months Rolling Programme	20-3	421 Submit CSD Programme Rev 21	TVY DC
Remaining	Work		mee wor	itin Koli	ing Pro	graini	ne		Filter: TASK filters: 3 Months Rolling_1, KTE - Submiss	2044	up 21 Submit CSD Programme Rev 22	TVY 00 TVY 00
									Page 10 of 16		up 21 Monthly Programme M28 ep-21 Submit CSD Programme Rev 23	1111 DC 1111 DC

	Activity Name	Orig Dur	Stat	Fisie	Late Stat	Late Finish	Total Float	(Day)	29 29 05 12 19	26 03 1 10	30 1 17	34 3	1 07	31 14	23	28 0	Dece 3 /6 12	12 18	28 0	34 2 09	ensey 33	23
iA-5012	RWS1-a - Fill upto formation level	28	03-3an-22	10-60-22	07-Mar-23	12.4pr-23	341	4.00											0			
W-52		146	09-Aug-21 A	18-Jan-22	30/0/21	13-Nov-21	-53	4.00														
LA 5095	RW-52 - Install remaining sheat piles for RW-52 (CE-0174)	12	09-Aug-21 A	28-Sep-21	30-301-21	02-Aug-21	-48	4.00														
A-5103	RW-S2 - Ecovation down to formation level +4.5	12	05-3an-22	18-Jan-22	01-Nov-21	13-Nov-21	-53													-	-	
W-54		187	1949ay-21 A	06-Jan-22	04-Feb-21	02-Mar-22	41	12.00											-			
A-5140A	RW-S4 - Construct Well (Bay 10/8) and. TCSS duct	21	19-Nay-21 A	05-0d-21	24-Feb-21	04-Mar-21	-174	1.00		_												
64-5142A	RW-54 - Construct Well (Bay 9) Ind. TCSS duct	9	29-May-21 A	15-0d-21	08-Feb-21	04-Mar-21	-182	1.00		_												
A-5137C	RW-54 - Replacement of Existing Soll with Rock Fill and Sub-base (Bay 3)	3	30-Aug-21 A	02-Sep-21 A	10-feb-21	10-feb-21			-													
4-5154	(PML-000) RM-54 - Construct Base Slab (Bay 3);	14	25-Sep-21	12-0d-21	10-Feb-21	04-Mar-21	-1.80	1.00		_												
A-5144A	RW-54 - Construct Wali (Bay 7) ind. TCSS duct	16	25-Sep-21	150d21	06-Feb-21	04-Mar-21	-182			_												
IA-5145A	RW-54 - Construct Wall (Bay 5) Ind. TCSS duct	19	25-Sep-21	19-0d-21	04-Feb-21	04-Mar-21	-185			_	-											
A-5150A	RW-54 - Construct Wall (Bay 4) ind. TCSS duct	8	255ep21	05-0d/21	24-Fab-21	04-Mar-21	-174															
A-5156	RW-54 - Construct Wall (Bay 3) ind. TCSS duct	35	13-06-21	23-Nov-21	05-Har-21	19-4pr-21	-1.80	1.00					_	_								
A-5168	RW-54 - Fill up to formation level	65	20-00-21	06-3an-22	05-Mar-21	26-May-21	-185	4.00			-		_	_	-	_		-	_			
A-51378	RW-54 - Replecement of Existing Soil with Rock Fill and Sub-base (Bay 6)		20-06-21	22-06-21	30-Mar-21	01-Apr-21	-164															
A-5146	(PMI-X00) RW-54 - Construct Base Slab (Bay 6);		23-06-21	08-Nov-21	07-Apr-21	22-Apr-21	-164	2.00					-									
IA-5146A	RW-54 - Caretrust Wall (Bay 6) Ind. TCSS dust		09-Nov-21	02-Dec 21	23-Ap+21	18-May-21	-164						1	-		-						
iA-5158	RW54 - Construct Base Sab (Bay 2)		24-Nov-21	09-Dec 21	14-Jan-22	29-30-22	41	1.00							-							
A-5158A	RW54 - Construct Vall (Bay 2) Ind. TCSS duct;		10-Dec21	06-lan-22	31-Jan-22	02-Mar-22	41	1.00								-	-			-		
W-S9	WWSH "Calibulat was (big 2) and 1033 data,		05-Jul-21 A	03-Jan-22	24-Rtb 21	14-Aug-21	-115	27.00									1	1	11			
			USSUI21 K	03/38/122	2411021	string to	413	21.40														
Ange 1			10.1000 A			1.0.00	-115															
5A/5292	RW59 - Construct Base Salo (Bay 9)		05-Jul-21 A			24-Feb-21		2.00														
54-5290	RW-59 - Construct Base Slab (Bay 10)	2	06-Jul-21 A	19-364-21 A	24-Feb-21	24-feb-21		1.00														
54-5294	RW-99 - Construct Base Slab (Bay 8)		13-Jul-21 A	19-3u#21 A	24-Feb-21	24-Feb-21		2.00														
SA-5296	RW-59 - Construct Base Slato (Bay 7)	7	29-Sep-21 A	08-04-21	24-Feb-21	08-Mar-21	-174	2.00														
5A-5298	RN459 - Construct Base Slab (Bay 6)	1	09-00-21	18-0d-21	09-Mar-21	16-Mar-21	-174	2.00		-												
SA-5300	RN-59 - Construct Base Slab (Bay 5)	9	19-06-21	28-00-21	17-Har-21	26-Mar-21	-174	2.00			-											
SA-5302	RW-59 - Construct Base Slab (Bay 4)	9	29-00-21	08-Nov-21	27-Ha-21	10-Apr-21	-174	2.00				-	_									
5A/5304	RW-59 - Construct Viall (Bay 4)	14	09-Nov-21	24-Nov-21	23-Jun-21	09-Jul-21	-1.15	2.00				211.2.2	-	-	-							
54-5306	RW-59 - Construct Base Stab (Bay 3)	9	09-Nov-21	18-Nov-21	12-Apr-21	21 Apr 21	-174	2.00					-	-								
5A/5318	RW59 - Hill upto formation level	28	19-Nov-21	21-00021	22-Ap+21	26-May-21	-174	4.00							-	-	-	-				
SA-5308	RW-59 - Construct Base Slab (Bay 2)	11	19-Nov-21	01-Dec-21	15-Jul-21	27-34-21	-106	2.00							-	-						
5A/5310	RW-59 - Construct Wall (Bay 3)	15	25-Nov-21	11-Dec-21	10-Jul-21	27-Jul-21	-115	2.00							-	-	-					
54-5314	RM-59 - Construct Well (Bay 2)	16	13-Dec-21	03-Jan-22	28-Jul-21	14-Aug-21	-115	2.00									-	-	-			
W-CKR		18	05-3an-22	25-Jan-22	31-Jan-22	26-Feb-22	22	3.00														
W-CKR-a			05-341-23	25 km 22	1146622	20-710-12																
5A-5336	RW-OKR-a - Excavation down to formation level +7.5	4	05-Jan-22	08-3an-22	31-Jan-22	10-Peb-22	22	1.00												-		
SA-5338	RW-OKR-a - Plate-Load Test and Report		10-3an-22	25-Jan-22	11-Rab-22	26-Feb-22	22	2.00														
	11																			11		
Current Mile		C	Bart		Tals E.			in d	(D	Project ID: K	TE-WP23_M	29				21-301		Sulemit CSD Pro			Chade Twi	00
Ortical Pare		NOWIOC) (Rev23 - CSD)	Baseline: Layout KTE	- 3 Months R	Iolling Progra	amme			\$5-3.m 25-3.6	k21 5	Aonthly Program Rubernit CSID Prog	parrents Rev 2	1	TW TW	DC DC
Remaining	Work		Inr	ee Mon	un Kolli	ing Prog	ramr	ne		Filter: TASK				ubmission.		35-34 25-Au		Aonthly Program Submit CSD Proc			TVY TVY	00
																25-Au		Aonth's Program			Dor	100

)	Activity Name	Orig Dur	Stat	Finith	Late Stat	Late Finish	Total Float	TRS (Day	Seplamber 29	October 30	November 31	December 32		January 30
Road Works		231	25-Jun-21 A	06-Apr-22	04/Kay-21	24-080-21	-78	14.00	29 05 12 19	26 03 10 17 24 3	1 07 14 21	28 06 12 18	28 02 0	16 23
	or Kai Fuk Road	28	25500-21	29-04-21	10-Jun-21	14-3:4-21	-89	4.00						
5A-5500	NFRd - Temp robcate existing Traffic Gamty (EB)	14	255ep21	12-0d21	10-Jun-21	26-Jun-21	-67	2.00						
54-5502	NFRD - Temp reloance existing Traffic Gantyr (WB)		13-06-21	29-04-21	28-Jun-21	14-14-21	-89	2.00						
			25-3un-21 A	11-389-22	04-May-21	06400-21	-129	8.00						
	Cai Fuk Road for KFR TTA Stage 1, 1.1, 1.2 & 1.3						-129	0.01						
5A-5521	NFR(Pre-stage) - Relocation of temp water meter (WSD) (EW-129)		25-Jun-21 A			04-May-21								
54-5519	NFR(Pre-stage) - Road Pavement for NPR TTA Stage 1	18	24-3ul-21 A	21-Aug-21 A	04-May-21	04-May-21		2.00						
5A-5523	NTR(Pre-stage for 1.1) - Road Powement for NTR TTA Stage 1.1 (Ind/baddRiing)	24	18-Nov-21	15-Dec-21	16-Jun-21	14-30-21	-129	2.00			1.0			
5A-5523A	KFR(Pre-stage for 1.2) - Road works for contra flow section	14	16-Dec-21	04-Jan-22	15-Jul-21	30-Jul-21	-129	2.00						
5A-5523B	NTR(Pre-stage for 1.3) - Leveling of existing road	6	05-Jan-22	11-Jan-22	31-34-21	06-Aug-21	-129	2.00					-	
At-grade Slip	Road SOO4	36	07-3an-22	24Feb-22	27-Nay-21	09-Jul-21	-185	2.00						
5A-5510A	BIM - S004 - Road and Doinage works / Utilities / TCSS duct laying (before IOTR TTA State 2)	36	07-Jan-22	24-6eb-22	27-May-21	09-Jul-21	-1.85	2.00						-
Kai Fuk Road	(EB) - Maintain 3 traffic lanes until CKR commissioning (PMI 253	180	25-Aug-21 A	06-Apr-22	24-Jun-21	24-Dec-21	-78	0.00						
5A-5844	NFR(EB) - 3 lanes - Tree felling proposal; LCSD application; TTA required	180	25-Aug-21 A	06-Apr-22	24-Jun-21	24-Oec 21	-78						_	_
CH 6BRe-co	nstruction of Existing Box Culvert	1.125	25-Sep-21	01-Nov-21	05-May-22	10-km-22	174	0.00						
	-construction Works		25-Sep-21	01-Nov-21	05-May-22	10-Jun-22	174	0.00						
BC- Reinstate			25-Sep-21	03-Nov-21	05-May-22	10-Jun-22	174	0.00						
68-5787				09-04-21		19-May-22	177	0.00						
	BC - Reinstate hard paving and related UU		25-5ep-21		05May-22		- 72						1 1	
68-5784	BC - Reinstatu planter wall in DSD compound		11-06-21	25-0d-21	20-May-22	02-Jun-22	177							
68-5786	BC - Transplant 5 nes of tree in DSD compound	3	11-0621	13-0d-21	31-May-22	02-Jun-22	186							
6B-5788	BC - Reinstate fending in DSD compound	6	26-049-21	01-Nov-21	04-Jun-22	10-Jun-22	177							
68-5790	BC - Complete reconstruction of Box Culvert	0		01-Wov-21		10-Jun-22	174							
ection 8 - V	entilation and E&M adit and Ring Road Underpass	279	25-MARCE A	15 Mil 72	2109030	13-tpr-22	- 18	59.00						
ich_6A Ventila	ation and E&M Adit Works	249	25-Mar-21 A	15-Mar-22	31-30-21	19-Feb-22	-20	21.00						
Area Part 1D1	, 103, 181 & 182	249	25-Mar-21 A	15-Mar-22	33-301-21	19-Feb-22	-20	21.00						
VA - RC Struct	tures	177	07-30F21 A	15-Mar-22	31-34-21	12-Feb-22	-26	13.00						
VA Sections	Bay B4 (15m)					36-985-22								
64-6566	W-84 - Construct RC Walls B. Top Slab	21	31-30-21 A	07-0ct-21	16-Nov-ZL	26-Nov-21	42	2.00						
VA Sections	Bary IISI (1445m)	14	22 AU22 A	30 Oct 71	32-64423	il Octi		2.00						
646572	WA-85 - Construct RC Walk & Top Slab	22	31-Jul-21 A	20-080-21	27-Nov-21	22-Dec-21	2	2.00						
646571	VA-B5 - Baddilling to strik L3/L4/L5		256ep-21	24-Nov-21	3100/21	28-5ap-21	-47						-	
CPROD/1	- Toy 55 (~14m)	30				100 March	-	1000			1 1 1			
			A LUNCE A	AC He TT	32 Dec 21	12 19194		200						
646578	WA-B6 - Construct RC Walls & Top 5 lab		31-Jul-21 A	15-Mar-22	23-Dec-21	12-Feb-22	-26	2.00						
64-6577	VA-86 - BackBling to strike LS/L4/L5	50	25-Nov-21	25-Jan-22	29-5ep-21	27-Nou-21	-47	_						
6A-6598	Wi-B7 - Construct Base Skib	24	07-Jul-21 A	24-3:4-21 A	29-5ep-21	29-Sep-21		3.00						
64-6600	WA-87- Construct RC Walls & Middle Sala	30	26-Jul-21 A	03-5ep-21 A	17-Nov-21	17-Nov-21		2.00						
64-6602	VA-87 - Construct RC Walk & Top Slab (Include RR B11 base slab)	23	25-Sep-21	23-0d-21	17-Nov-21	13-Dec-21	43	2.00						
			13	19		110						Date	Revisco	Checked As
Current Mile	201 Links W. 1946	owles	n Bort	o Kali	Tak Ees	t /Month	. 20 1	Ind	e) (Rev23 - CSD)	Project ID: KTE-WP23_M29 Baseline:		21-Jun-21 Submit CSD Progs 35-Jun-21 Monthly Programme	mma Rav 20	Tw oc Tw oc
- Otical Rem	aring Wok	owiod				ing Prog			e) (Rev23 - CSD)	Layout: KTE - 3 Months Rolling Progra	imme	25-3421 Submit CSD Progra	erme Rev 21	TVY DC
Remaining	Work		in	ee won	ul Roll	ing Prog	ram	ne		Filter: TASK filters: 3 Months Rolling_1		35-34-21 Monthly Programme 20-Aug-21 Submit CSD Progra	mme Rev 22	TW DC TW DC
										Page 12 of 16		25-Aug-21 Monitry Programma	9 M28	1117 DC 1117 DC

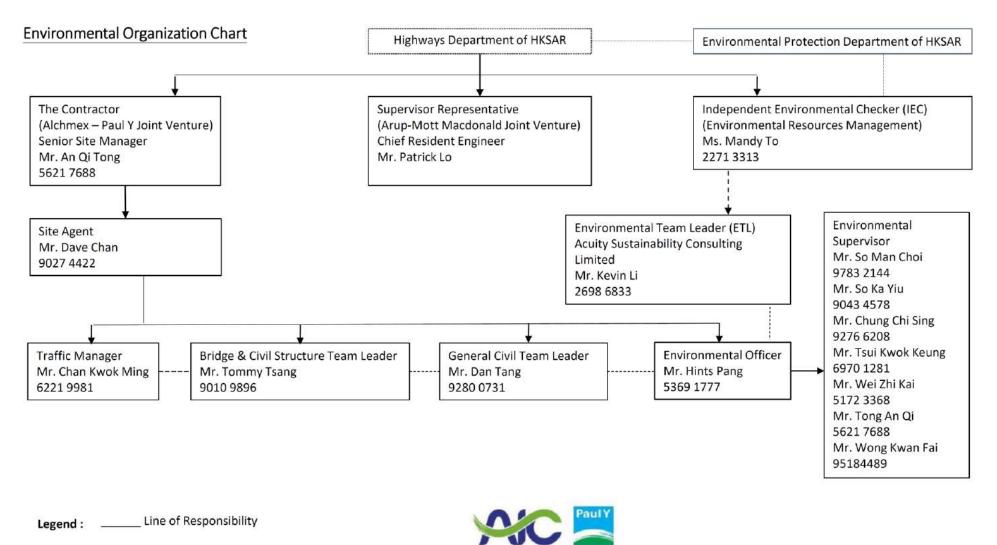
	Activity Name	Ong Dur	Stat	Finish	Late Stat	Late Finish	Total Filoat	TRS (Day	September 29	Octobar November 30 31	December 32	Sansay 33
VA - Miscellar	neous	249	25-Mar21 A	25-Jan-22	22-0(0-21	19-Feb-22	16	8.00	29 05 12 19	26 03 10 17 24 31 07 14 21	28 (4 12 19 28 02	09 16 23
VA - Stage L	Miscellaneous works		TELES	UIA MIL	22-00-21	machi		11.00				
64-6604	WA - Movement Joint / Waterproofing, Stage 1	32	25-May 21 A	06-Oct 21	22 Oct 21	01-Nov-21	21	2.00				
6A-6606	VA - Backfilling up to GL with additional concrete bik end wall. Stage 1		25-Sep-21	11-Nov-21	22-04-21	06-Dec-21	21	4.00				
6A-6607	VA - Haul Road preparation & diversion, stage 1 (end May 2021)		12409-21	18-Nov-21	07-Dec-21	13-0ec-21	21					
	Handlarena works		12390921	10109-21	ur bocci	194641	.21					
						11111111111	1.000			_		
64-6608	W Movement Joint / Waterproofing, Stage 3		25-140+21	25-Jan-22	14-Dec-21	19-Feb-22		2.00				
	Road Underpass	200	13-34-21 A	26-Jan-22	1500-21	13-Apr-22	ш	38.00				
	l, 102, 1D3, 1D4, 1B1 & 182		13-3uH21 A	26-Jan-22	15-0d-21	13-Apr-22		38.00				
RR - ELS Wor	ks	120	13-3ul-21 A	17-Nov-21	24 Nov-21	06-Apr-22	110	16.00				
101 - 215 504	pp: 4											
4-6880	RR - Excavation Down to Final Formation Level, 1D1-1D4		13-Jul-21 A	243,821 A	11-Jan-22	11 Jan-22		2.00				
4-6880A	RR -stage 4 - ro dx replacement works (PMI-274)	10	24-3ul-21 A	11-Aug-21 A	11-Jan-22	11-Jan-32		2.00				
AR- ELS Sta	94. P	- 535	DURCH	17-lev-11	24/6921	00-40-11	1.10	1.1.00				
4-6728	RR - Install Coffeetam - Stage 5	22	17-301-21 A	30-Aug-21 A	24-Nov-21	24-Nov-21		3.00				
4-6732	WR - Excavation Down to 1st walling & Stut; Instal walling & Stut; 1818-182	17	25-Sep-21	16-0d-21	24-Nov-21	13-Dec-21	49	4.00				
4-6734	RR - Excevation Down to Final Formation Level, 1518382	21	18-Oc-21	10-Nov-21	14-Dec-21	10-Jan-22	49	4.00				
4-6736	RR - Excavation Down to Formation Level (Baddilling) (RR), 1818-182 (Open		11-Nov-21	17-Nov-21	30-Mar22	06-40/-22	110	1.00				
	at) tions, Pump Sump & FS Plant Room	130	11-Aug-71 A	76-lan-22	150d-21	13-Apr-22	11	22.00				
NA - DUK SEL	(\$211 CH0+134 W 0+146)		the area		istanti							
					11100.00	11040.00	111					
4-6744	RR-R3 - Construct Base slab		11 Aug-21 A			21-Feb-22		2.00				
4-6746	RR-R3 - Construct External Wall		27-5ep-21	25-0d/21	21-F80-22	18-Mar-22	115	2.00				
4-6748	RR-R3 - Construct Top Slab	21	28-06-21	20-Nov-21	19-Mar-22	13-Apr-22	113	2.00				
4-6750	RR-RH - Construct Base slab	10	11-Aug-21 A	09-Sep-21 A	27-Jan-22	27-Jan-22		2.00				
4-6752	RR-RH - Construct External Wali	24	25-Sep-21	25-0d-21	27-Jan-22	02-Mar-22	101	2.00				
4-6754	HN-RH - Construct Top Stab	23	26-06-21	20-Nov-21	03-Har-22	29-Mar-22	101	2.00				
IR-Bay US	(5011 CH0+141 to 0+100)	-110	11 Aug (1.6	3040+01	27-barr-22.	29 (fax).2	101-	1.00				
4-6762	RR-R5 - Construct Base stab	10	11-Aug-21 A	09-Sep-21 A	27-Jan-22	27-3an-22		2.00				
4-6764	RR-R5 - Construct External Wall	24	25-Sep-21	25-0d-21	27-Jan-22	02-Mar-32	101	2.00				
4-6766	RR-RS - Construct Top Slab		26-00-21	20-Nov-21	03-Har-22	29-Mar-22	101	2.00		Gamma		
IN- Nov SY	(5011 CH0+193.3 to 0+211.6) (at-grade) (001)	100	CONTRACTOR OF	10 In 22	15 on 11	Ti fie (T		4.0				
4-6775	RR-RU1 - Construct Side wall / Internal wall	34	255ep-21	10-Nov-21	15-0:0-21	27-Nov-21	15					
4-6778	RH-RU1 - Construct Scie Wall (Internatival RH-RU1 - Construct RC Walls (15 plantroom 1 & 2)		25-5ep-21 08-Dec-21 A			21-Mar-32	L.	4.00				
				- 10 Mar 10 Cont	17921 - 195	1 42-522-52		4.00				
	Footbridge, E&M Installation and Miscellaneous Wc											
A CONTRACTOR	m Exisiting Subway KS-20		21-Aug-21 A		22-Apr-21	15-Jun-21	-129	9.00				
(S-20 - ELS fi	or Demolition Works	0	21-Aug-21 A	21-Aug-21 A	04-May-21	04-May-21		0.00				
7-7301	TTA - Stage1 (After implement of pre-stage)	0	21-Aug-21 A		04 May-21							
											Data Permen	Owned a
Current Me	2	owles	n Bout	o Kal	Tak Eas	Month	. 20 1	Ind	(Rev23 - CSD)	Project ID: KTE-WP23_M29 Baseline:	21-Jun-21 Submit CSD Programma Rev 20 30-Jun-21 Monthly Programma M26	Tw OC
Otical Rem	uniting Wolk	owiod				ing Prop			(116423 - COD)	Layout: KTE - 3 Months Rolling Programme	25-3421 Submit CSD Programme Rev 21	TVY DC
Remaining	Work		in	ee won	ul Koll	ing Prog	grann	ne		Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	35-34-21 Monthly Programme M27 26-Aug-21 Submit CSD Programme Rev 22	TVY 00 TVY 00
										Page 13 of 16	25-Aug-21 Monthly Programme M28 25-Sep-21 Submit DSD Programme Rev 23	11YY DC 11YY DC

ið.	Activity Name	Orig Dur	Stat	Finiti	Lute Start	Lote Finish	Total Fical	0	TRA September Day 29		Octob 30	567 	Nover 21	ter		December 32			January 33	- 10 - 10
KS-20 - Dem	olstion / Filing Works	96	23 Aug-21 A	17-Nov21	22-Ap+21	15-Jun-21	-129	9	2 29 05 12 19 LOD	3 26	03 90	0 24 31	07	14 21	28 0	0 12	18 28	02	09 16	23
Kai Fuk Roat	1 (WB)	96	23 Aug 21 A	17-Nov-21	22-Apr-21	15-kn-21	-129	g	100											
7-7328	KS20 - Excavate down to subway roof level	18	23 Aug-21 A	30-Sep-21	04 May 21	08-May-21	-120	3	00	i internet										
7-7330	KS20 - Demolsh extg subway & ramp (W8)	28	25-Sep-21	29-04-21	22-Apr-21	26-May-21	-129	4	100	-	_	-								
7-7332	KS20 - General fill to formation level / Utilities diversion / Laying inside subway		30-00-21	17-Nov-21	2744ay-21	15-Jun-21	-129	2	.00	-		-								
iection 11 -	Structure of Bridge CKRE	- 211	25#lav-21.A	10-0:0022	140 m (2).	29-km-21	-101	-23	100											
Sch_3.10 Brid	lge CKRE Works	211	25-May-21 A	10-Feb-22	14-Jan-21	29-Jun-21	-181	23	100											
CKRE - Pilling	Works	108	25-5ep-21	10-feb-22	14-Jan-21	25-Jun-21	-184	8	.00											
Piling Works	- Rer P-K5-CKRE	100	06-00-21	10-feb-22	14-Jan-21	25-Jun-21	-1.84	8	00											
3.10-7514	OKRE - Bored Piles for KS-CKRE-2 (1 nr)	36	06-0:021	17-Nov-21	14-Jan-21	03-Mar-21	-211	4	00	-	-	_	-					1		
3.10-7518	CKRE - KS-CKRE-2 Proof drilling & Piles testing	24	18-Nov-21	15-Dec-21	28-May-21	25-Jun-21	-144	a	100					-						
3.10-7506	OKRE - Bowd Piles for KS-CKRE-1 (1 nt)	36	23 Nov 21	06-Jan-22	09-Mar21	23-Apr-21	-211	4	100					_			_	-		
3.10-7510	OKRE - KS-OKRE-1 Proof drilling & Piles testing	24	07-)an-22	10-Feb-22	24-Apr-21	24-May-21	-211	σ	100									-	_	_
Piling Works	- ABUT A-K4-CKRE	24	256ep-21	25-0021	10-Har21	10-Apr-21	-162	ū	00											
3.20-7526	OVRE - ABUT A-K4-OVRE Proof chilling & Piles testing	24	25-Sep-21	25-06-21	10-Mar-21	10-Apr-21	-162	0	100	-										
CKRE - Pile C	aps, Pier / Abutment	210	25-May-21 A	09-Feb-22	12-Apr-21	29-Jun-21	-1.80	15	.00			-								
Abutment A-	K1-CKRE	186	25-May-21 A	09-Dec-21	14-Apr-21	29-Jun-21	-136	11	.00											
3.10-7530	OKRE - Excavation Down to Formation Level A-K3-ORE	14	25-May-21 A	02-Oct-21	14-Apr-21	20-Apr-21	-1.36	2	.00 Noneman and a second s	-										
3.10-7532	CKRE - Propara plic head (4nrs) A-K1-CKRE	6	04-06-21	09-0d-21	21-Apr-21	27-Apr-21	-136	4	00		-									
3.10-7534	DKRE - Construct Abutmant Base A-K1-CIRE	16	11:0021	29-0d-21	28 Apr 21	17-May 21	-136	1	.00		-									
3.10-7536	OKRE - Construct Abutminit A-K1-OKRE	26	30-06-21	29-Nov-21	18-May-21	18-Jun-21	-1.36	4	100			-	_	_						
3.10-7538	CKRE - AK1-CKRE Install Permeate Membrane and Backfill	9	30-Nov-21	09-0xc-21	19-Jun-21	29-Jun-21	-136	0	1.00						-	6				
Abutment A-	K4-CKRE	59	23-Nov-21	09-5-6-22	12-Apr-21	22-Jun-21	-186	4	100											
3.10-7568	OKRE - Prepare pile head (4nrs) A-K4-OKRE	20	23-Nov-21	15-Dec-21	12-Apr-21	05-May-21	-186	0	100					_		_				
3.10-7570	OVRE - Construct Abutment, Base A-K4-C/RE	17	16-Dec-21	07-Jan-22	05-May-21	26-May-21	-1.86	1	.00	-							_	-		
3.10-7572	DKRE - Construct Abutment AHX4-OKRE	22	08-Jan-22	09-#eb-22	27-May-21	22-Jun-21	-186	3	100										_	_
ection 12 -	Underpass S21	208	074989/21/4	14489-22	16-16:21	20-00/21	-41	-52	200											
	Road Underpass S21	208	07-May-21.A	14-387-22	16-Mar-21	20-Nov-21	-44	52	00	1 1										
S21 - RC Str	ucture	150	29-Jun-21 A	21-00021	16-Mar-21	06-Nov-21	-38	22	.00											
S21 - U-Trou	gh Sections - South (CH000 to CH143.981)	78	08-301-21 A	09-0d-21	01-Sep-21	06-Nov-21	23	3	100											
S21 - Bay R	2-1 - U-Trough Type III (CH143.001 to 126)		00.N/21 A	25 Aug 21 A	Of fag-21	III. dispir 2.1			.00											
4-7768	S21-82-1 - USS Construct Side Well (final pour)	24	08-301-21 A	25-Aug-21 A	01-Sep-21	01-Sep-21		3	100											
S21 - Bay B	12-10 - Al-Grade Slab (CH909.376 to 000)	10	2556911	10-0621	2501.11	00-600-71	- 11	Ű	000											
4-7812	S21-82-10 - Construct At Grade slab	12	25-Sep-21	09-0d-21	25-0d-21	06-Nov-21	23	0	100	-	_									
S21 - Box Se	ctions (CH143.981 to CH205.700)	150	29-3un-21 A	21-Dec-21	15-gut-46	30-0ct-21	-11	12	.00											
521 - Bay 6	1-2 - Box Section (CH159.5 to 175)		TEMPERA	710e71	016621	3868-21			100									1 1		
4-7734	S21+61-2 Construct Base State (1st poor)	30	12-Jul-21 A	30-Aug-21 A	04-Aug-21	04-Aug-21	-	1	.00											
4-7734A	521-81-2 visize of pipe size in base slab; ind procurement & delivery (PMI-313)	12	31 Aug-21 A	13-Sep-21 A	04-Aug-21	04-Aug-21														
					1	110			Less had been	<u> </u>						Sale	Re		1.65	ecied A
Gurent N Adual Vic		owloo	n Rout	o - Kal '	Tak Eas	t (Mont	h 20	lle	date) (Rev23 - CSD)		Project ID: KTE-M Baseline:	VP23_M29			21-Jun 30-Jun	121 Sular	nor al CSO Programme M Programme M2	e Rev 20	Tw	00
	maining Work	0.0100				ing Prop					ayout KTE - 3 N	Aonths Rolling Program			25-34	21 Subm	et CSD Programme W Programme M2	e Rev 21	TW	DC
Remaining) Work			00 100						2	Filter: TASK filten	s: 3 Months Rolling_1,	, KTE - Submis	sion.	20-Au	p21 Subm	et CSD Programme	e Rev 22	TW	00
											Page 14 of 16				25-Au 20-5ee	p21 Month p21 Subm	the Programmes M2 at CSID Programme	8 e Rev 23	Der Der	00

4-7746 4-7748 4-7750 51 - Bay 71 - 4 4-7762 21 - U-Trough 2 51 - Bay 713 - 1 4-7818	S21 EL 2 Construct Save Siles (final pour) S21 EL 2 Construct Seturnal Walk (File pour) S21 EL 2 Construct Seturnal Walk (File pour) & Top Sale S01 School (Fill 75 la 100.5) S21 EL 2 Construct Seturnal Walk (File pour) & Top Sale S21 EL 2 Construct Seturnal Walk (File pour) & Top Sale S21 EL 2 Construct Seturnal Walk (File pour) & Top Sale S21 EL 2 Construct External Walk (File pour) & Top Sale S21 EL 2 Construct External Walk (File pour) & Top Sale S21 EL 2 Construct External Walk (File pour) & Top Sale S21 EL 2 Construct External Walk (File pour) & Top Sale S21 EL 2 Construct External Walk (File pour) & Top Sale Sections - North (CH205.700 to CH254.937) S1 EL 3 - Heat construct External Walk (File pour) & Top Sale Sections - North (CH205.700 to CH254.937) S1 EL 3 - Heat construct External Walk (File pour) & Top Sale Sections - North (CH205.700 to CH254.937) S1 EL 3 - Heat construct Baue side	25 40 117 24 44 23 44 23 44 117	Miterati A 30-Jun-21 A	2) Reell		11-4ug21 10-5qp-21 30-0ct 21 77-5qp-21 07-5qp-21 07-5qp-21 29-0ct 21 10-6ct 21 27-4ug-21 30-0ct 21	-44 -44 -15 -15	2.00 2.00 1.00 2.00 2.00 2.00 2.00 1.00	05 12 19						
4-7738 4-7746 4-7746 4-7748 4-7750 7110 Bay 1014 4-7750 2110 Bay 1014 4-7752 2110 Bay 1014 4-7818	S21 81 3 Construct Edema1Walk (Trui pour) & Top Sale =Box Sections (CF1175 bis 19025) S21 6(1-3 Construct Base Sale S21 8(1-3 Construct Base Sale S21 8(1-3 Construct External Walk (14 pour) S21 8(1-3 Construct External Walk (Trea) pour) do Top Sale =Box Sections (Cf119015 Tor 2057) S21 8(1-4 Construct External Walk (14 pour) S21 8(1-4 Construct External X pour) S21 8(1-4	40 117 24 44 111 28 44 44 117	05 Nov 21 30-30-21 A 26-30-21 A 24-50-21 A 29-30-21 A 05-02-21 26-30-21 A	21-Dec21 10-14-01 30-44g-21 A 23-5ep-21 A 16-No-21 04-0d-21 25-No-21	11 Sep 21 07 Sep 21 07 Sep 21 07 Sep 21 07 Sep 21 20 Aug 21	30-0d:21 27-0d:21 07-5ep-21 07-5ep-21 29-0d:21 29-0d:21 27-4ug-21	-44 -15	2.00 5.00 1.00 2.00 2.00							
4-7746 4-7746 4-7748 4-7750 711 - Bay 71-4 4-7750 4-7752 21 - U-Trough 1 4-7818	- Box Sectors (CH175 In 1905) S21-E1-3 Contruct Steen State S21-E1-3 Construct Steen Web (Text Jour) S21-E1-3 Construct Steen Web (Text Jour) 40 Top State - Box Sectors (CH1905.5 In 2057) S21-E1-4 Construct Steen Web (Text Jour) S21-E1-4 Construct Steen Web (Text Jour) S21-E1-4 Construct Steen Web (Text Jour) CH153-1-Vise concells Eight Internation Instruments 53 (12-238-FD) S21-E3-1 - Construct Steen 440	114 17 24 44 111 28 44 117 301	20-30-21 A 20-30-21 A 24-50-21 A 24-50-21 A 29-30-21 A 05-00-21 A 26-30-21 A	1019-011 30-402-21 A 23-5ep-21 A 16-Rox-21 04-0d:21 25-Nox-21	975ep-21 075ep-21 075ep-21 075ep-21 29Aug-21	29404.0 07-5ep-21 07-5ep-21 2940e-21 18404.0 18404.0 27-40g-21	-15	1.00 2.00 2.00							
4-7746 4-7748 4-7750 51 - Bay 71 - 4 4-7762 21 - U-Trough 2 51 - Bay 713 - 1 4-7818	S21613 Construct Rese Selo S21613 Construct External Web (1st pour) S21613 Construct External Web (Treal pour) do Top Selo Box Section (C11/S015 to 2057) S21614 Construct External Web (1st pour) S21614 Construct External Web (Freal pour) Top Selo Sections - North (C12057/00 to C1354/957) - U-Trough Typer 131 (C112057 to 223) S21631 - Vess constret Bill upto formation least underneath S3 (22,238-FD) S21634 - Construct Base also	24 44 28 44 117	26-bil-21 A 245ep-21 A 29-bin-21 A 29-bin-21 A 05-bie-21 26-bil-21 A	23-5ep-21 A 16-Nov-21 04-0ds21 25-Nov-21	07-Sep-21. 07-Sep-21. 20-Aug-21. 20-Aug-21.	07-Sep-21 29-Oct-21 IICOL-71 27-Aug-21	-21	2.00							
4-7748 4-7750 4-7760 4-7762 21 - U-Trough 1 4-7818	S2141-3 Construct External Walk (14 pour) S2141-3 Construct External Walk (Treal pour) als Top Sals + Box Section (141901-5 to 205.7) S2141-4 Construct External Walk (14 pour) S2141-4 Construct External Walk (Final pour) Top Sals Sections - North (CH205.700 to CH354-357) - U-Trough Typer 131 (CH205.7 to 223) (21431-4 Max construct Bill upto formation lead undernaith S3 (22-206.70) S21434 - Construct Bills also	24 44 28 44 117	26-bil-21 A 245ep-21 A 29-bin-21 A 29-bin-21 A 05-bie-21 26-bil-21 A	23-5ep-21 A 16-Nov-21 04-0ds21 25-Nov-21	07-Sep-21. 07-Sep-21. 20-Aug-21. 20-Aug-21.	07-Sep-21 29-Oct-21 IICOL-71 27-Aug-21	-21	2.00							
4-7750 233 - Bay (1)3-4 4-7762 4-7762 231 - U-Trough (231 - Bay (1)3-1 4-7818	S2181-3 Construct External Web (Pinel pour) of Top Sale + Box Section (CH1991-3 to 205.7) S2181-4 Construct External Web (1st pour) S2181-4 Construct External Web (Final pour) Top Sale Sections - North (CH205.700 to CH354-357) - U-Trough Typer 111 (CH205.7 to 223) (21431-4 Mex construct Bill upto formation lead underniath S3 (22-206.PD) S21834 - Construct Bills (also	44 28 44 117	245sp-21 A 285tm-21 A 29-Jun-21 A 05-De-21 26-Jul-21 A	16-Nov-21 04-0ct-21 25-Nov-21	07-5ep-21. 2040-01 2040g-21	29-0d-21	-	2.00							
521 - Day 711-4 4-7760 4-7762 21 - U-Trough 1 521 - Day 713-1 4-7818	Hos Section (11/190.5 to 205.7) S1141-4 Construct Edenal Webs (14.pour) S1181-4 Construct Edenal Webs (Final pour) Top Sab Sections - North (CH205.700 to CH354.937) - U-Trough Type: 111 (CH205.7 to 223) (21431-4 Mex cancel: Bi upto famation level underseth S3 (42.2786FD) S21434 - Construct Base also	28 44 117	29-3un-21 A 05-0xe-21 26-3ul-21 A	04-0d-21 25-Nov-21	20Aug-21	11(01:7) 27-Aug-21	-	2.00							
4-7760 4-7762 2 1 - U-Trough \$ 4-7818	S2141-4 Construct External Walks (1st.pour) S2141-4 Construct External Walks (Final pour) Top Salo Sections - North (CH205,700 to CH354-937) - U-Tronogh Typer 2111 (CH205,7 to 223) S21431-4 Max consets III upto formation level underwark S3 (1st.2364 - Construct Base date	28 44 117	29-3un-21 A 05-0xe-21 26-3ul-21 A	04-0d-21 25-Nov-21	20Aug-21	27-Aug-21	-	2.00							
4-7760 4-7762 2 1 - U-Trough \$ 4-7818	S2141-4 Construct External Walks (1st.pour) S2141-4 Construct External Walks (Final pour) Top Salo Sections - North (CH205,700 to CH354-937) - U-Tronogh Typer 2111 (CH205,7 to 223) S21431-4 Max consets III upto formation level underwark S3 (1st.2364 - Construct Base date	28 64 117	29-3un-21 A 05-0x0-21 26-3ul-21 A	04-0d-21 25-Nov-21			-30	1.00							
4-7762 21 - U-Trough 5 4-7818	52181-4 Construct External Walk (Final poor) Top Sab Sections - North (CH205.700 to CH354.957) - Unitrough Type 111 (CH205.7 to 223) (S11431 - Max constrict Bigsto formation level understaft 53 (rg.278mPD) S21634 - Construct Bisso side	44	05-0x021 26-3ul-21 A	25-Nov-21											
21 - U-Trough 3 4-7818	Sections - North (CH205.700 to CH354.957) - Li-Trough Type: III (CH205.7 to 223) (CH205.7 - Max caracter Bigts formation level undanualh 53 (F2.278.FP) S21 634 - Construct Biss data	117	26-3ul-21 A		an output		-22	1.00							
4-7818	- U-Trough Typer III (CH1005.7 to 223) S(1-634) - Mass amonds fill upta formation level underseth 53 (F2-2781F2) S(1-634) - Construct Base slab	301	1000000000000000		16-Mar-21	06-Nov-21	-30	7.00		12					
4-7818	S21+83-1 - Mass concrete fill upto formation level undernaath S3 (R2.78mPD) S21+83-1 - Construct Base alab						30	7.00	constationers for na 12						
	(R.2.78mPD) S21-63-1 - Construct Base slab	::4						31,90							
				17-Aug-21 A		16-Mar-21		1.60							
4-7820		14	18 Aug 21 A	30-Aug-21 A	16-Mar-21	16-Mar-21		1.00							
4-7823	521-63-1 - Construct Side Wels (1st pour)	30	01-Sep-21 A	28-Sep-21	16-Mar-21	18-Mar-21	-157								
4-7824	S21-63-1 - Construct Side Walk (final pour)	36	12-06-21	23-Nov-21	24-Sep-21	06-Nov-21	-14	1.00			-				
21 - Eny 89-2	- U-Trough Type III (CH222.0 to 240.0)	55	01-06-21	06.0=23	25 Aug 21	06-flow/21		2.00							
4-7831	521-63-2 - Construct Side Walls (1st pour)	28	05-00-21	06-Nov-21	28-Aug-21	30-Sep-21	-30			-		-			
4-7836	S21-63-2 - Construct Side Walk (final pour)	27	08-Nov-21	08-040-21	06-Oct-21	06-Nov-21	-27	2.00				-			
31 - Bay #3-3	- U-Trough Type II (C+1340.0 to 253.3) Part 38	31	OR Nov 21	11:00:21	62-04-11	99 Nov 21	-35	0.00							
4-7844	S21 83-3 - Construct Side Walls (final pour)	30	08-Nov-21	11-Dec-21	02-04-21	06-Nov-21	-30	0.00				6			
21 - Rev (11-9	- At Grade Slab Part 3E (CH321.11 to 354.957) Part 3E		Line II	100000	24.01.21	March 10									
4-7868	S21-83-9 - Construct At Grade skib	12	25-Sep-21	09-Oct-21	25-0:0-21	06-Nov-21	23	2.00		_					
			07-May-21.A		01-Sep-21	20-Nov-21	-44	30.00							
1 - Miscellane															
	ofing and Backfilling Works	208	07-May-21 A	14-387-22	01-Sep-21	20-Nov-21	-44	30.00							
								11.00	and the second second second						
4-7968	S21 - Watesproofing / Movement Joint / Nazonny Wall (U-Trough Section - South)	48	26-301-21 A	25-Sep-21	01-5ep-21	01-Sep-21	-19	4.00	10 10 10						
4-7942	521 - Baddfiling up to GL. (U-Trough Section - South)	48	16-Aug-21 A	18-0ct-21	07-5ep-2L	23-5ep-21	-19	6.00		-					
41 - Dire Sectio	oms (CH143.981 to CH203.789)							1100							
4+7873	S21 - Backfilling up to GL/ set up for haul load at B1-1 (end June)	20	07-May-21 A	25-Sep-21	05-Nov-21	06-Nov-21	35								
4-7870	521 - Waterproofing / Movement Joint / Nazoney Wall (Box Section)	.48	03-Nov-21	30-00021	09-5ep-21	06-Nov-21	-44	6.00							
4-7872	521 - Baddfling up to GL. (Box Section)	.48	10-Nov-21	07-lan-22	24-Sep-21	20-Nov-21	-38	6.00							
21 - U-Trough	Sections - North (CH205.700 to CH322.110)	41	004829-11	3845622	wau	30-800-71	- 30	0.00							
4-7946	S21 - Weterproofing / Movement Joint / Meeonry Wal (U-Trough Section -	36	08-Nov-21	18-Dec-21	02-04-21	13-Nov-21	-30	4.00				C		_	
4-7944	North) S21 - Baddfilling up to GL. (U-Trough Section - North)		15-Nov-21	28-Dec-21	09-Oct-21	20-Nov-21	-30	4.00							
21 - Final Con	spletion Works			10111122	NH4000	10.1007		1100					8 8 8		
4-7814	S21 - Real Completion Works	1	31-Dec-21	14-3m-22	09-Nov-21	20-Nov-21	-44	0.00							
					09760-21										
4-7816	S21 - Completion of Structure of Underpass S21	0		14-Jan-22		20-Nov-21	-44	0.00							
🛡 Gurrent Milestor										Project	D: KTE-WP23_M29		Date 21-km21	Rentern Submit CSD Programme Rev 20	Oncired App
Adual Work Otical Remaining	Central Ko	owloc	on Rout	e - Kai 1	ak Eas	t (Month	1 29 L	Jpdate	v23 - CSD)	Baseline	n de la construcción de la constru El construcción de la construcción d		30-3an-21 20-34-21	Monthly Programme ND6 Submit CSD Programme Rev 21	TW DC
Critical Remaining Work	ng wok					ing Prog					KTE - 3 Months Rolling Pro ASK filters: 3 Months Rolling		35-34-21	Monthly Programme M27	TW OC
										Page 15			20Aup21 25Aup21	Submit CSD Programme Rev 22 Monthly Programme M28 Submit CSD Programme Rev 23	TYY 0C TYY 0C TYY 0C

	Activity Name	Ong Dur	Stad	Finith	Late Stat	Late Finish	Total Filoat	TRA (Dey)	29		Octobar 30			Noven 31				32				asay 33	
	eeve pipes for District Cooling System (Subject to	-236	as Navas A	14448-22	12/38/21	000m(22)	100	59:00	29 05 12 19	26 0	10	17 34	31	07	14 21	28	65	12	19 2	20 8	09	16	23
th_10 Sleeve pi	ipes for DCS (Kai Tak River West)	115	25 Nav 21 A	150021	19-Rib-21	04-3an-22	66	29.00															
CS-West Sectio		115	25 May-21 A	09-0d21	19-Rib-21	04-Jan-22	70	7.00															
10-8476	(XCS(W)_A - Baddiling upto formation level	40	25-May-21 A	29-Sep-21	19-Feb-21	23-Feb-21	-178	4.00	- A Constant of the second second	-			-										
10-8478	DCS(W) A - Reinstatement (Pavement / fending / etc.)	8	30-Sep-21	09-0d-21	23-Dec-21	04-Jan-22	70	3.00			-												
CS-West Sectio	on B (49m)	47	30-Jun-21 A	30-Sep-21	05-May-21	10-May-21	-119	8.00															
	DCS(W)_B - Install permanent seawater pipes 2x1400 ID (L=50m)	28	30-3an-21 A		05-May-21	05-May-21		6.00															
	(PMI-0146) DCS(W)_B - Baddiling upto formation level	26	05-Jul-21 A	30-Sep-21	05-May-21	10-May-21	-119	2.00															
CS-West Sectio			18-Jun-21 A	15-0d-21	08-5ep-21	27-5ep-21	-14	14.00					1										
	DCS(W)_C - Construct new Manitole SWHK36 & denoish existing M/H		18-Jun-21 A			08-5ep-21	11	6.00															
	DCS(W)_C - Install permanent asswater pipes 2x1400 (L=50m) (PMI-0146)		23-Aug-21.A			08-5ep-21		6.00															
	DCS(W)_C - assail particular seaman pape 200406 (C-30m) (PHEVER0) DCS(W)_C - Baddilling upto formation level		202012/03120	150d21	0.004395555	27-540-21	-14	2.00		_	_		4							5			
			25 Aug 21 A		06 Sep 21					1													
	ipes for DCS (Kai Tak River East)		85-Aug-21 A	1444a-22	12-Jan-21	30-Aug-21	-156	30.00															
	n 1 (approx 37.5m)		05-Aug-21 A		12-Jan-21	03-344-21	-205	18.00															
0-85148	DCS(E)- additional pre-boring to overcome uncharted u/g obstruction (EVE-143) ; essumed 18 days		05-Aug-21.A			12-Jan-21		-															
	DCS(E) - Install sheetpile (1=96 im) (after pre-boring to overcome obstruction; assumed)			02-Sep-21 A		12-3an-21		2.00															
18516	DCS(E) - Develoring system installation (TBA subject to design)	18	25-Sep-21	18-0d-21	12-Jan-21	01-Feb-21	-205	2.00			-												
98518	DCS(E) - Excavation down to formation level (Part A for Pile caps) ind walling & strut	30	19-00-21	22-Nov-21	02-Feb-21	15-Mar-21	-205	3.00				_	-	_						1			
	DCS(E) - Excavation down to formation level (Part B for DCS) ind walling & strut	15	23-Nov-21	09-000-21	16-Mar-21	01-Apr-21	-205	3.00							-	-							
6522	DCS(E) - Install skewe pipes 3x1800 ID (L=37.5m)	24	10-Dec-21	10-Jan-22	07-Apr-21	05-May-21	-205	6.00										-	-	-	-		
0.8524	DCS(E) - Baddilling upto formation level	48	11-Jan-22	14-Mar-22	05-May-21	03-3-4-21	-205	2.00													-	-	-
CS-East Portion	n 2 (approx 37.5m)	127	26 Aug 21 A	08-Feb-22	15May-21	15-guA-0E	-127	12.00															
0-8528A	(CS/E)- additional ps-boring to overcome unchented u/g obstruction (EW-143) ; assumed 18 days	26	26-Aug-21 A	25-Sep-21 A	15-May-21	15-May-21																	
0-8528	DCS(E) - Instal sheetple (L=95 lm)	8	03-Sep-21 A	05-04-21	15-May-21	25-May-21	-110	2.00	-	-													
0-8530	DCS(E) - Dewatering system installation (TBA autiject to design)	26	06-06-21	05-Nov-21	26-May-21	25-Jun-21	-110	2.00			-	-	-										
0-8512	DCS(E) - Exavation down to formation level ind wailing & stut	36	06-Nov-21	17-0ee-21	26-Jun-21	07-Aug-21	-110	2.00						_	_	-	-	-					
10-8534	DCS(E) - Install sleeve pipes 3x1800 ID (L=37.5m)	19	11-Jan-22	08-Feb-22	09-Aug-21	30-Aug-21	-127	6.00													-	_	_
10-8530 10-8532	DCS(E) - Devidening system installation (TSA subject to design) DCS(E) - Excavation down to formation level ind wailing & strut	26	06-06-21 06-Nov-21	05-Nov-21 17-Dec-21	26-May-21. 26-Jun-21	25-Jun-21 07-Aug-21	-110 -110	2.00										-					

Appendix C Project Organization Chart



----- Line of Communication

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

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

Note:

ET – Environmental Team

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

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 Recommende d 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	 APCO To control the dust impact To meet HKAQO and TM-EIA criteria 	Implemented
S4.3.10	D2	 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 	Implemented
\$4.3.10	D3	 Proper watering at exposed spoil should be undertaken throughout the construction phase; Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be 	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 	Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 extended beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 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; 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; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical 						

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\$4.3.10		 continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Any skip hoist for material transport should be totally enclosed by impervious sheeting; Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, 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. Implement regular dust monitoring under EM&A programme during the construction stage. 	Monitoring of dust impact	Contractor	Selected rep. dust monitoring	Construction stage	• TM-EIA	• Implemented
			Construc	tion Noise (Airborn	station e)			

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S5.4.1	N1	 Implement the following good site practices: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	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
S5.4.1	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	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented

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		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 Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1		 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: Construction Runoff 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; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under 	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 	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 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; 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; 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; All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; Measures should be taken to minimize the ingress 						

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		 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; 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; 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; 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; 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 						

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		 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; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; Adopt best management practices; All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet 						

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		season (April to September) as far as practicable.						
S6.9.1.2	W2	 Tunneling Works and Underground Works 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. Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; 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; 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. 	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-DSS TM-EIAO 	• N/A

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\$6.9.1.3	W3	 Sewage Effluent 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 	Implemented
\$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 	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	 Water Pollution Control Ordinance TM-DSS TM-EIAO 	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 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 at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol 						

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		interceptor.						
\$6.9.1.6		 <u>Accidental Spillage</u> In order to prevent accidental spillage of chemicals, the following is recommended: 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; 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. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation. 	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 	• Implemented
			Waste Manage	ement (Construction	Waste)			
\$7.4.1	WM1	 On-site sorting of C&D material 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 	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

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		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	 <u>Construction and Demolition Material</u> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; 	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	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	• Implemented

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		 Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and 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. 						
\$7.5.1	WM3	 <u>C&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; 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 	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	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	 Implemented and rectified after observation

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		sites should be considered for such segregation and storage.						
\$7.5.1	WM4	 <u>Excavated Contaminated Soils</u> 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	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land GN/GM for land contamination 	Implemented
\$7.5.1	WM5	 Land-based Sediment 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; 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; 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 	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

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		 approved locations; Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. 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; 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; The material shall be placed into the disposal pit by bottom dumping; 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; Discharge 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. For Type 3 special disposal treatment, sealing of 						

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		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	 <u>Chemical Waste</u> <u>Chemical Waste</u> <u>Chemical waste that is produced, as defined by</u> 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; <u>Containers used for the storage of chemical wastes</u> 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; 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 	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 and Storage of Chemical Waste 	Implemented and rectified after observation

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\$7.5.1	WM7	 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; 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. General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes; 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. 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 	refuse and avoid odour, pest and	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	• Implemented

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		collection. Participation in a local collection scheme should be considered by the Contractor.						
			Land Contamir	nation		·		
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 excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. 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. 	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land Guidance Notes for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-Based 	• 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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures			Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		Locations Testing Acceptance								
		PBH4 PCBs RBRGs (Public Park)								
		 If the results of analysis below the RBRGs (Public Park), no further excavation will be required. 								
		If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be								
Appendix 8.4	LC4	supervised by a Land Contamination Specialist. A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.								• N/A
· · · · · · · · · · · · · · · · · · ·					Hazard to Life			•	·	
S9.18	H8	healthy, expo records. Th	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			Contractor	Works areas at which explosives would be	Construction stage	-	• N/A

EIA Ref. Log Ref.		Recommended Mitigation Measures	Objectives of the Recommende d 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
			Lan	dscape & Visual				
S10.10.1 Table 10.11	LV3	 <u>Good Site Management</u> 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. Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	 <u>Screen Hoarding</u> 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 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

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		The Contractor shall consider other security measures, which shall minimize the visual impacts.						
S10.10.1 Table 10.11	LV6	 Erosion Control 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 stage	-	Implemented
S10.10.1 Table 10.11	LV7	Tree Protection & Preservation • 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.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	 '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 Latest recommended horticultural practices from GLTM Section, DEVB 	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV8	Tree Transplantation • 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	 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. Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works 	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	 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 Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d 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	 Screen Planting 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	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	• 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	• N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommende d 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				
\$13.2	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	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented
S13.2-13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual; Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented

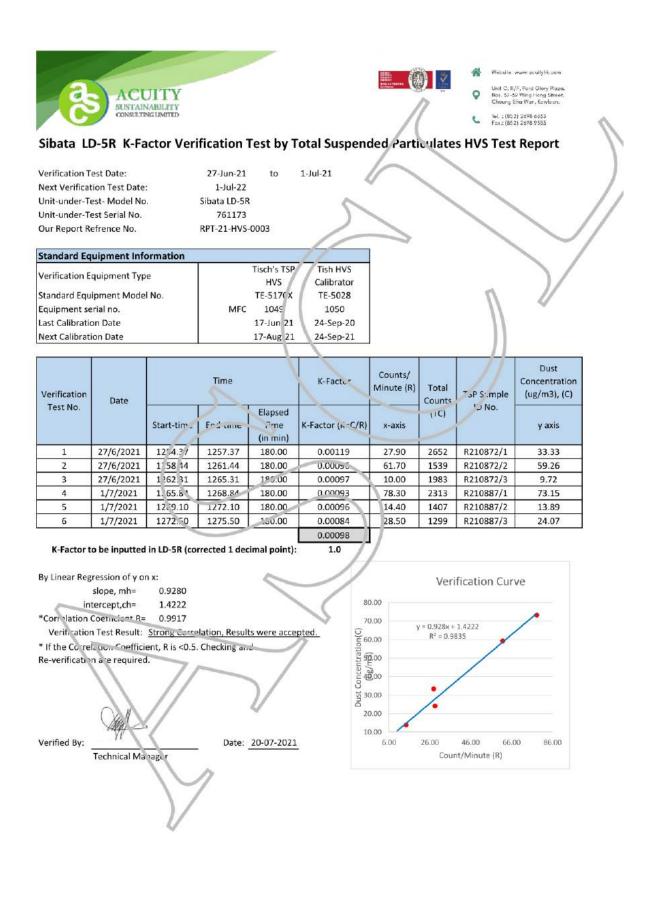
Appendix G Monitoring Schedule of the Reporting Month

September 2021

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

Acuity Sustainability Consulting Ltd.

Appendix H Calibration Certificates (Air Monitoring)



	50							ALIBRATIO
							Aug	ust 3, 2022
vir	onm	ent	al					
	61	2	cate	of	Cal	libre	rtion	
			alibration C		on Inform	ation		
								61/
Cal. Date:	August 3, 2	021	Rootsr	neter S/N:	438320	Ta:		°K
Operator:	perator: Jim Tisch					Pa:	750.57	mm Hg
Calibration	Model #:	TE-5028A	Calib	rator S/N:	3702			
		Vol. Init	Vol. Final	AVol.	ΔTime	ΔΡ	ΔH	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3170	4.1	1.50	
	2	3	4	1	1.0350	6.7	2.50	1
	3	5	6	1	0.9420	8.0	3.00	1
	4	7	8	1	0.8650	9.3	3.50	1
	5	9	10	1	0.6540	16.2	6.00	
			D	ata Tabulai	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(Tstd)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-axi		Va	(x-axis)	(y-axis)	
	0.9922	0.7534	1.223		0.9945	0.7552	0.7678	
	0.9887	0.9553	1.579	13	0.9911	0.9576	0.9913	
	0.9870	1.0478	1.730	0	0.9893	1.0503	1.0859	
	0.9853	1.1390	1.868		0.9876	1.1417	1.1729	
	0.9761	1.4925	2.446		0.9784	1.4960	1.5356	
	OCTO	m=	1.645		00	m=	1.03041	
	QSTD	b= r=	-0.003		QA	b= r=	-0.00231 0.99975	
		1-1	01000	1.		1-1	0.00010	1
				Calculation				
		and a second	/Pstd)(Tstd/Ta)		AVol((Pa-AP)/Pa)	
	Qstd=	/std/∆Time				Va/ATime		
			For subsequ	ent flow rat	te calculatio	15:		
	Qstd=	1/m((Pa Pstd (Tstd Ta)-b)	Qa=	1/m((√∆H	(Ta/Pa))-b)	
		Conditions		12				
Tstd:				L L		RECAL	IBRATION	
Pstd:		mm Hg			11S EPA reco	mmends an	nual recalibratio	n ner 1998
AH: calibrat	or manomet	ey er readine (ir	1 H2O)				egulations Part	
	eter manome						Reference Meth	
Ta: actual a	osolute temp	erature (°K)					ended Particulat	
and the second of the second se	arometric pr	essure (mm l	Hg)			A CONTRACTOR OF A CONTRACT	re, 9.2.17, page 3	All of the second second second second
b: intercept								

Fisch Environmental, Inc. 145 South Miami Avenue

/illage of Cleves, OH 45002

www.tisch-env.com 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:	04-Sep-2021		
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong		

Ambient Condition

Corrected Pressure (mm Ha):	756.2	Temperature (deg K):	302.8
		· · ·	

Calibration Orifice							
Model:	TE-5028A	Slope:	1.64554				
Serial No.:	3702	Intercept	-0.00368				
Calibration Due Date:	3-Aug-21	Corr. Coeff:	0.99975				

Calibration Data

Plate or	In H2O	Oa, X-Axis I, CFM		IC. Y -Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.28	0.682	25.0	24.78
2	1.53	0.745	27.2	26.96
3	1.88	0.827	29.6	29.33
4	2.27	0.908	32.2	31.86
5	2.69	0.988	34.4	34.04

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

•	• •	-			
m=	30.1675	b=	4.3450	Corr. Coeff=	0.9994
Samp	ler set point(SSP)	41	CFM		
Qstd = 1/m[Sqrt(I IC = I[Sqrt(Pa/Pst	H2O(Pa/Pstd)(Tstd/Ta))-b] d)(Tstd/Ta)]		Calculations m = sampler slope b = sampler intercept		
	art response esponse std slope		I = chart response Tav = average temperature Pav = average pressure		
•	g alculation of sampler flow: (298/Tav)(Pav/760)]				
Checked by:	黄雪街		Date:	04-Se	p-21

Acuity Sustainability Consulting Ltd.

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:	16-Sep-2021		
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong		

Ambient Condition

Corrected Pressure (mm Ha):	757.1	Temperature (deg K):	302.2

Calibration Orifice							
Model:	TE-5028A	Slope:	1.64554				
Serial No.:	3702	Intercept	-0.00368				
Calibration Due Date:	3-Aug-21	Corr. Coeff:	0.99975				

Calibration Data

Plate or	In,H2O	Oa. X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.23	0.671	24.1	23.89
2	1.52	0.745	26.2	26.01
3	1.81	0.812	28.6	28.31
4	2.19	0.894	30.9	30.60
5	2.60	0.974	33.1	32.78

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

m=	29.5802	b=	4.0805	Corr. Coeff=	0.9993
Samp	ler set point(SSP)	40	CFM		
Qstd = 1/m[Sqrt(I IC = I[Sqrt(Pa/Pst	H2O(Pa/Pstd)(Tstd/Ta))-b] d)(Tstd/Ta)]		Calculations m = sampler slope b = sampler intercept l = chart response		
•	art response esponse std slope	• •	Tav = average temperature Pav = average pressure		
•	g alculation of sampler flow: (298/Tav)(Pav/760)]				
Checked by:	黄雪街		Date:	16-Se	ep-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 Communique). 此項 ISO/IEC 17025:2005 的認可資格證明比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(見圖際認可論壇、圖際實驗所認可合作組織及圖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 certificete is issued subject to the terms and conditions taid down by HKAS 本證書按照香港語可處訂立的條款及條件發出



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

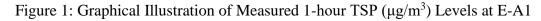


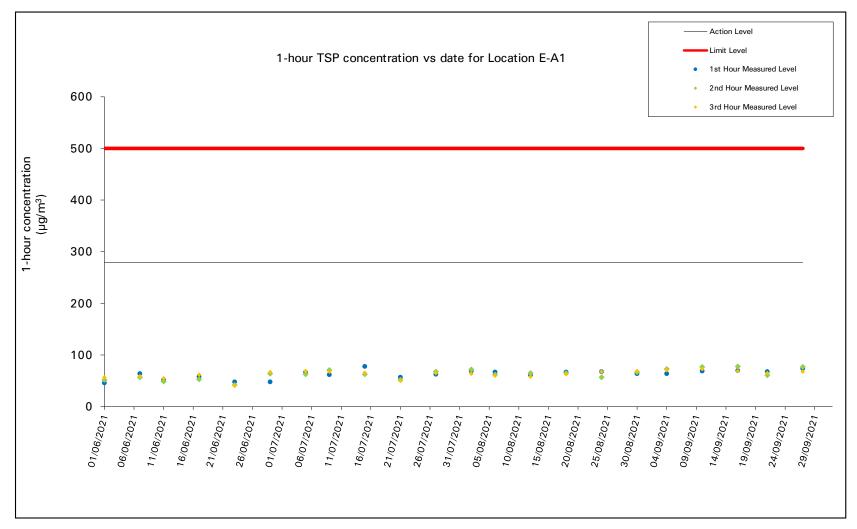
Acuity Sustainability Consulting Ltd.

Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 21 and 27 September 2021
Parameter:	TSP 1-hour
Other Factors:	Nearby traffic

	1-hour TSP (µg/m ³)									
Date	Weather	Start Time	1 st Hour (μg/m ³)	2 nd Hour (μg/m ³)	3 rd Hour (μg/m ³)					
04/09/2021	Fine	11:56	64	73	71					
10/09/2021	Sunny	11:07	69	77	73					
16/09/2021	Sunny	11:05	70	78	69					
21/09/2021	Fine	10:54	68	61	65					
27/09/2021	Sunny	10:57	74	77	68					

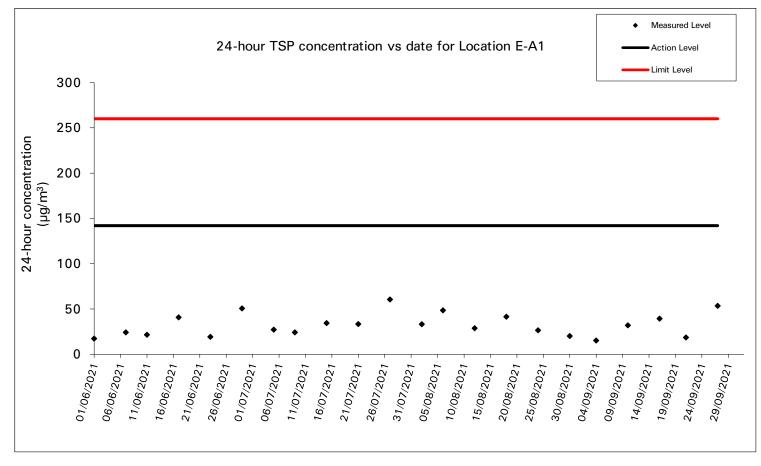




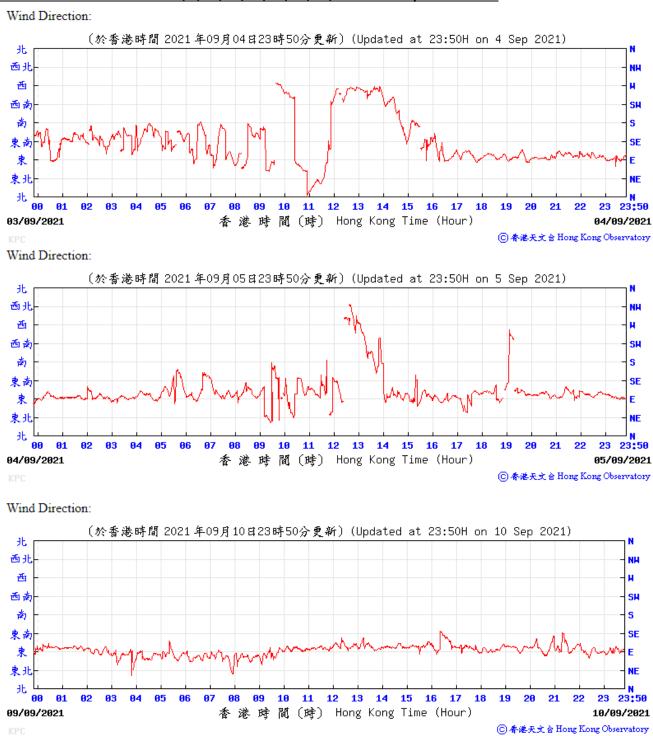
Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 21 and 27 September 2021
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

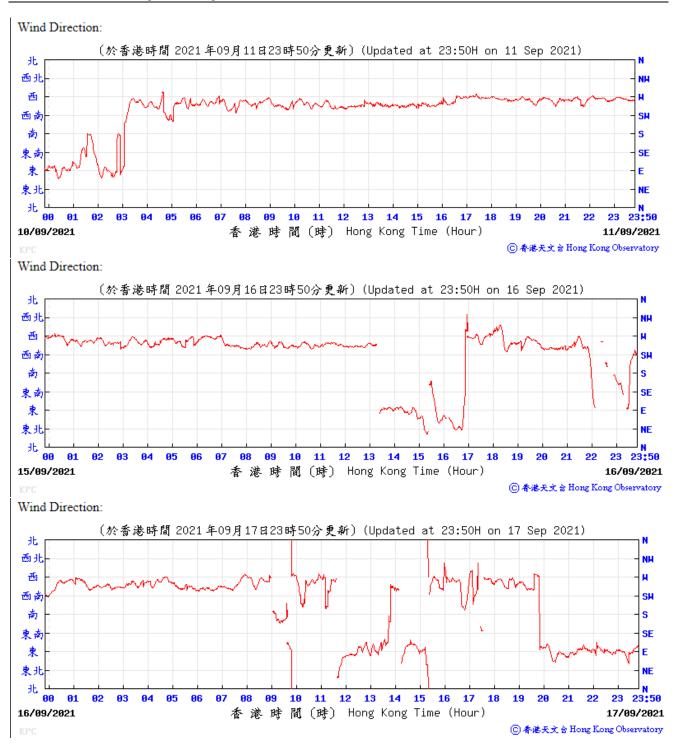
											Calibration:			Slope =	
										Calibratio	on due date:	18-Sep-21		Intercept =	4.3450
										Date of	Calibration:	16-Sep-21		Slope =	29.5802
										Calibratio	on due date:	30-Sep-21		Intercept =	4.0805
Start Date	We athe r Condition		Elapse Time				Avg Air Temn	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight	(g)	Particulate weight	Conc.	
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m ³ /min)	(m ³)	Initial	Final	(g)	$(\mu g/m^3)$
04/09/2021	Fine	2781.65	2805.65	1440.00	39	39	39.0	29.8	1008.3	1.13	1629	2.7624	2.7871	0.0247	15
10/09/2021	Sunny	2805.65	2829.65	1440.00	41	41	41.0	30.5	1008.3	1.20	1721	2.7705	2.8255	0.0550	32
16/09/2021	Sunny	2830.05	2854.05	1440.00	41	41	41.0	29.2	1009.4	1.20	1727	2.7669	2.8347	0.0678	39
21/09/2021	Fine	2854.05	2878.05	1440.00	40	41	40.5	29.0	1009.5	1.22	1751	2.7611	2.7936	0.0325	19
27/09/2021	Sunny	2878.05	2902.05	1440.00	39	39	39.0	29.5	1010.8	1.17	1680	2.7654	2.8550	0.0896	53

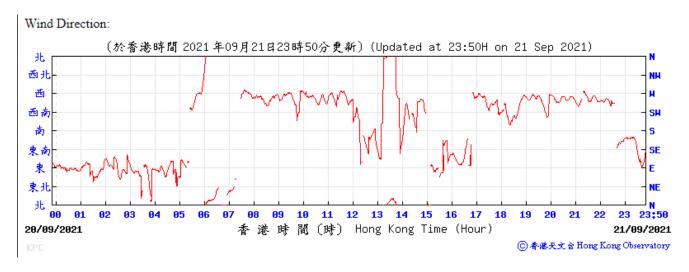
Figure 2: Graphical Illustration of Measured 24-hour TSP ($\mu g/m^3$) Levels at E-A1



WIND DIRECTION DATA FOR 4, 5, 10, 11, 16, 17, 21, 22, 27 and 28 September 2021







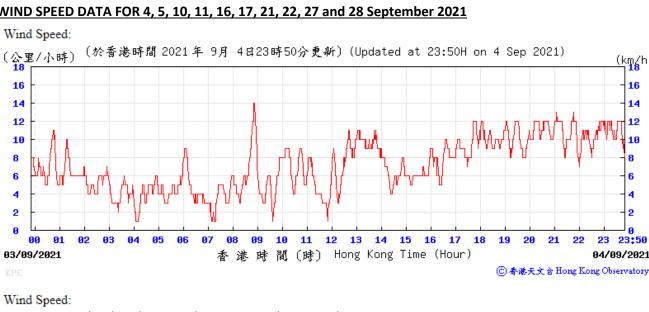
Wind Direction:



Wind Direction:







(km/h)

16

14 12

10

8

6

4

2

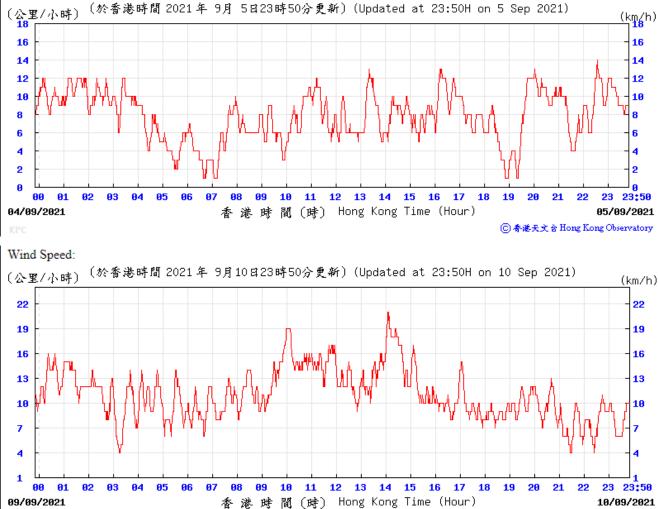
23:50

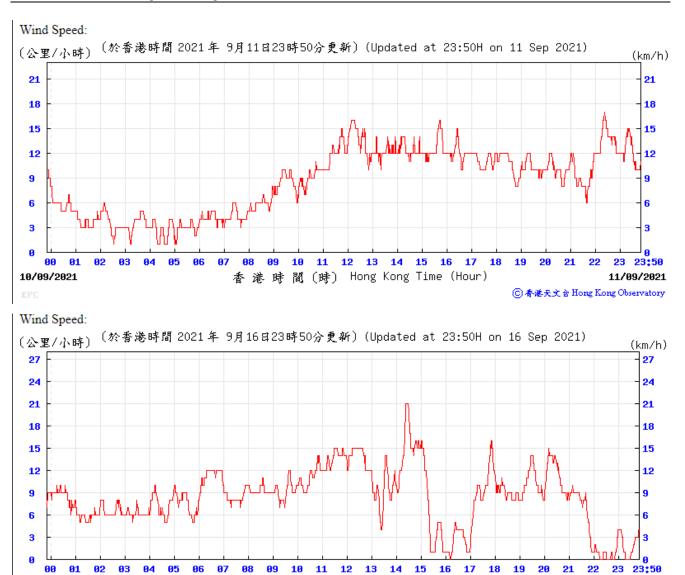
04/09/2021

23

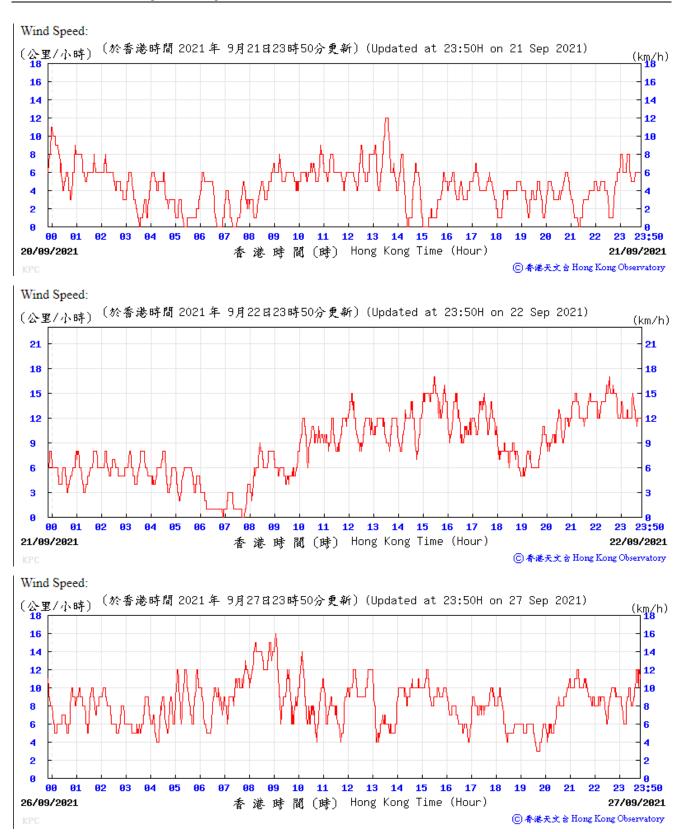
ⓒ 養遂天文 含 Hong Kong Observatory

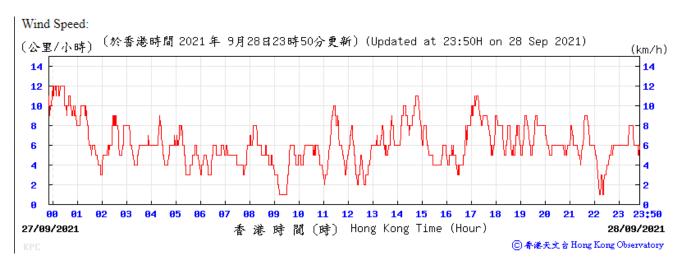
WIND SPEED DATA FOR 4, 5, 10, 11, 16, 17, 21, 22, 27 and 28 September 2021











Appendix L Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department:Highways DepartmentMonthly Summary Waste Flow Table forSeptember 2021

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

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 2 decimal places.)

		Actual Quantities of <u>Inert</u> Construction Waste Generated 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	10,835.78	0.00	0.00	8,147.74	2,470.81	0.00				
Aug-21	4,120.42	0.00	0.00	809.83	3,094.80	0.00				
Sep-21	2,621.59	0.00	0.00	0.00	2,418.87	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	93,097.67	0.00	100.00	40,313.27	51,243.86	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	243,399.71	340.00	380.00	75,311.99	163,677.48	1,109.00				

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly											
Month	(g) Metals		(h) Paper/ cardboard packaging			(i) Plastics		(j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill			
	(in '(000kg)	(in '0	00kg)	(in '00)0kg)	(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	72.46	72.46	0.00	0.00	0.00	0.00	0.00	0.00	144.77			
Aug-21	94.97	94.97	0.08	0.08	0.00	0.00	0.00	0.00	120.74			
Sep-21	94.58	94.58	0.02	0.02	0.00	0.00	0.00	0.00	108.12			
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	623.07	623.07	0.37	0.37	0.00	0.00	0.00	0.00	817.10			
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	853.11	853.11	1.70	1.70	0.00	0.00	0.00	0.00	1,726.43			

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 Daried	Environmental Complaint Statistics						
Reporting Period	Frequency	Cumulative	Complaint Nature				
1 September 2021– 30 September 2021	0	2	N/A				

Statistical Summary of Environmental Non-compliance

Departing David	Environmental Non-compliance Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 September 2021–	0	0		
30 September 2021	0	0	N/A	

Statistical Summary of Environmental Summons

Donorting Doriod	Environmental Summons Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 September 2021–	0	0	N/A	
30 September 2021	0	0	IN/A	

Statistical Summary of Environmental Prosecution

Departing Daried	Environmental Prosecution Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 September 2021– 30 September 2021	0	0	N/A	

Appendix N Monitoring Schedule of the Coming Month

OCTOBER 2021

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

31 1

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. 12 (September 2021)

Version 1 Date of Report: 8 October 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

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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.12
Date of Report:	8 October 2021 (Version 1)
Date received by IEC:	8 October 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/plan complies with the above referenced condition of EP-457/2013/D.

Mondy 20.

Ms Mandy To Independent Environmental Checker Date:

8 October 2021

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.12_20211008.docx

TABLE OF CONTENTS

		Page
EX	XECUTIVE SUMMARY	1
	roduction	
	vironmental Monitoring Works	
	mplaint Handling, Prosecution and Public Engagement	
	porting Changes ture Key Issues	
1	INTRODUCTION	
Ba	ckground	
	rpose of the Report	
	bject Organizations	
Co	nstruction Activities undertaken during the Reporting Month	4
	mmary of EM&A Requirements	
	tues of Environmental Licensing and Permitting	
2	AIR QUALITY	
	onitoring Requirements	
Ob	servations	
3	NOISE	6
Mo	onitoring Requirements	6
Ob	oservations	6
4	WASTE MANAGEMENT	7
Mo	onitoring Requirements	7
Re	sults and Observations	7
5	LANDSCAPE AND VISUAL	8
Mo	onitoring Requirements	8
Re	sults and Observations	8
6	ENVIRONMENTAL AUDIT	9
Sit	e Audits	9
Im	plementation Status of Environmental Mitigation Measures	9
	plementation Status of Event and Action Plans	
	mmary of Complaint, Warning, Notification of any Summons and Successful Prosecution	
	tus of Required Submission under Environmental Permit	
7	FUTURE KEY ISSUES	11
8	CONCLUSIONS AND RECOMMENDATIONS	12
Co	nclusions	

LIST OF TABLES

Table I	Summary of Complaint/Summons/Prosecution in the Reporting Month
Table 1.1	Key Project Contacts
Table 1.2	Summary of Environmental Licensing and Permit Status
Table 4.1	Quantities of Waste Generated from the Project
Table 6.1	Observations and Recommendations of Site Inspections
Table 6.2	Status of Required Submission under Environmental Permit

LIST OF FIGURES

- Figure 1.1 Site Layout Plan
- Figure 1.2 Project Organisation for Environmental Monitoring and Audit

LIST OF APPENDICES

- Appendix A Construction Programme
- Appendix B Summary of Waste Generation and Disposal Records
- Appendix C Environmental Mitigation Implementation Schedule (EMIS)
- Appendix D Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

EXECUTIVE SUMMARY

Introduction

- This is the 12th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. HY/2019/13 "Central Kowloon Route – Buildings, Electrical and Mechanical Works". This report summarized the monitoring results and audit findings of the EM&A programme under the issued EP No. EP-457/2013/D, and in accordance with the EM&A programme in Kai Tak East Area during the reporting period from 1st September 2021 – 30th September 2021.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
 - Piling works (pipe piles and sheet piles); and
 - Entrusted drainage works excavation and lateral support (ELS), drainage pipes/manhole casting.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 7, 14, 21 & 28 September 2021, whereas joint site inspection with the representative of IEC was conducted on 21 September 2021. The implementation of the environmental mitigation measures, Event and Action Plans and environmental complaint handling procedures were also checked.
- 4. A summary of the non-compliance (exceedance) during the reporting month (September 2021) and the investigation results and/or follow-up actions is provided below:

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

Complaint Handling, Prosecution and Public Engagement

5. Summary of complaint/summons/prosecution in the reporting month is tabulated in **Table I**.

Event	E	vent Details	Follow up/ Domodial Actions	Status/
	Number	Brief Description	Follow-up/ Remedial Actions	Remarks
Complaints	0			
Received	0	-	-	-
Notification of				
Summons and	0			
Prosecutions	0	-	-	-
Received				

Table I Summary of Complaint/Summons/Prosecution in the Reporting Month

Reporting Changes

6. There were no reporting changes during the reporting month.

Future Key Issues

- 7. The key works or activities will be anticipated in the coming two months are as follows:
 - Piling works (pipe piles and sheet piles); and
 - Entrusted drainage works ELS, drainage pipes/manhole casting; and
 - Excavation and Sub-structure works for Administration Building.

1 INTRODUCTION

Background

- 1.1 Central Kowloon Route (CKR) is a 4.7km long dual 3-lane trunk road across Central Kowloon linking Yau Ma Tei Interchange in West Kowloon and the road network at Kai Tak Development and Kowloon Bay in East Kowloon. The underground tunnel section will be about 3.9km long. In particular, an underground tunnel of about 370m long in Kowloon Bay to the north of To Kwa Wan Typhoon Shelter will be constructed.
- 1.2 The Environmental Impact Assessment Report for Central Kowloon Route Design and Construction (Register No.: AEIAR-171/2013) was approved under the Environmental Impact Assessment Ordinance (EIAO) on 11 July 2013. An Environmental Permit (EP No.: EP-457/2013) was issued on 9 August 2013. Variations of Environmental Permit (VEP) was subsequently applied and an EP (EP No. EP-457/2013/C) was issued on 16 January 2017. The latest EP (EP No. EP-457/2013/D) was issued by Environmental Protection Department (EPD) on 15 June 2021.
- 1.3 The construction of the CKR had been divided into different sections. This Contract No. HY/2019/13 Central Kowloon Route Buildings, Electrical and Mechanical Works ("The Project") will include the architectural, civil and structural construction works of Yau Ma Tei Ventilation Building (YVB), Ho Man Tin Ventilation Building (HVB), Kai Tak Ventilation Building (KVB) and Central Kowloon Route Administration Building (ADB) for the CKR. The landscaping and electrical and mechanical (E&M) works within the building sites will be involved as well.
- 1.4 Cinotech Consultants Limited was assigned as the Environmental Team (ET) to undertake the EM&A works for the Project. The construction of this Contract was commenced on 12th October 2020.

Purpose of the Report

1.5 This is the 12th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in Kai Tak East Area during the reporting period from 1st September 2021 – 30th September 2021. The Kai Tak East Area site layout plan for the Project is shown in Figure 1.1.

Project Organizations

- 1.6 Different Parties with different levels of involvement in the project organization include:
 - Project Proponent Highways Department (HyD)
 - Engineer Representative (ER) Arup Mott MacDonald Joint Venture (AMMJV)
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) Environmental Resources Management -Hong Kong Limited (ERM)
 - Contractor Gammon Construction Limited (GCL)

1.7 The key contacts of the Project are shown in **Table 1.1**.

1 able 1.1	Key I Tojeci Contacis		
Party	Role	Contact Person	Phone No.
AMMJV	Engineer Representative	Mr. Dennis Yu	3695 0419
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
ERM	Independent Environmental Checker	Ms. Mandy To	2271 3313
GCL	Contractor	Mr. Harry Lam	9353 6141

Table 1.1Key Project Contacts

1.8 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

Construction Activities undertaken during the Reporting Month

- 1.9 The construction programme is presented in **Appendix A**.
- 1.10 The major site activities undertaken in the reporting month included:
 - Piling works (pipe piles and sheet piles); and
 - Entrusted drainage works (ELS, drainage pipes/manhole casting).

Summary of EM&A Requirements

- 1.11 The EM&A programme requires air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.

Statues of Environmental Licensing and Permitting

1.13 All permits/licenses obtained for the Project are summarized in **Table 1.2**.

Table 1.2 Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid I	Status						
Permit / License No.	From	То	Status					
Environmental Permit (EP)								
EP-457/2013/D	15 Jun 2021	N/A	Valid					
Notification of Construction Works under Air Pollution Control Ordinance (APC								
457346	18 Jun 2020	End of Project	Valid					
Billing Account for Construction	Waste Disposal	-						
7037679	26 Jun 2020	N/A	Valid					
Registration of Chemical Waste F	Producer – Kai Tak							
5211-286-G2347-54	13 Jul 2020	N/A	Valid					
Wastewater Discharge Licence - I	Kai Tak							
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid					
Construction Noise Permit - Kai	Fak Site (Percussive	Piling [Sheet Piles])					
PP-RE0006-21	19 Mar 2021	18 Sep 2021	Valid					
Construction Noise Permit - Kai	Гак Site (General W	orks [grouting, pili	ng])					
GW-RE0402-21	11 May 2021	10 Nov 2021	Superseded by					
GW-RE0402-21	11 May 2021	10 100 2021	GW-RE0944-21					
GW-RE0944-21	24 Sep 2021	23 Mar 2022	Valid from 24 Sep 2021					

2 AIR QUALITY

Monitoring Requirements

2.1 As all of the air quality (1-hour TSP and 24-hour TSP) monitoring works in Kai Tak East Area are currently covered under the Contract No. HY/2018/02 (Central Kowloon Route - Kai Tak East), the corresponding monitoring parameters, equipment, methodology, results and established Action and Limit Levels could be referred to Section 3 of the EM&A report for Contract No. HY/2018/02 during this reporting month.

Observations

- 2.2 No Action/Limit Level exceedance was recorded for all 1-hour TSP and 24-hour TSP monitoring in the reporting month.
- 2.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summary of site audits are shown in **Table 6.1** of this report.

3 NOISE

Monitoring Requirements

3.1 As no Noise Sensitive Receiver (NSR) is located within 300m from the boundary of Kai Tak East Area, no construction noise monitoring is required in Kai Tak East Area for this Project.

Observations

3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summary of site audits are shown in **Table 6.1** of this report.

4 WASTE MANAGEMENT

Monitoring Requirements

4.1 Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D materials. Inert C&D waste includes soil, broken rock, broken concrete and building debris, while non-inert C&D materials are made up of C&D waste which cannot be reused or recycled and has to be disposed of at the designated landfill sites.

Results and Observations

4.2 The quantities of different types of waste generated in the reporting month are summarised in Table 4.1. Details of the amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix B**.

	Quantity												
	Inert C&D	Materials		Non-inert C&D Materials									
Reporting Period	Total Quantity Generated (in '000m ³)	Disposed as Public Fill (in '000m ³)	Others, e.g. general refuse (in '000m ³)	Metals (in '000kg)	Paper/cardboard Packaging (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)						
September 2021	2.548	2.548	0.020	0	0	0	0						

 Table 4.1
 Quantities of Waste Generated from the Project

4.3 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summary of site audits are shown in **Table 6.1** of this report. The implementation status of the waste/chemical management measures in the reporting period are summarized in **Appendix C**.

5 LANDSCAPE AND VISUAL

Monitoring Requirements

5.1 According to the EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Site inspections of the implementation of landscape and visual mitigation measures would be undertaken at least once every two weeks during the construction period.

Results and Observations

- 5.2 Bi-weekly inspection of the implementation of landscape and visual mitigation measures within the site boundaries of this Project was conducted on 14 & 28 September 2021. The implementation status of the landscape and visual mitigation measures in the reporting period are summarized in **Appendix C**. The summary of observations and recommendations made for landscape and visual mitigation measures during site audits are shown in **Table 6.1** of this report.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.

6 ENVIRONMENTAL AUDIT

Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site audits were conducted on 7, 14, 21 & 28 September 2021 in the reporting month. Joint site inspection with the representative of IEC was conducted on 21 September 2021. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 6.3 According to Environmental Permit, the approved EIA Report (Register No.: AEIAR-171/2013), and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix C**.
- 6.4 The ET weekly site inspections were carried out during the reporting month and the observations and follow-up actions in Kai Tak East Area are summarized in **Table 6.1**.

Parameters Date Observations Follow-up Actions										
Farameters	Date		ronow-up Actions							
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A							
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A							
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A							
Waste / Chemical	7 Sep 2021	Chemical waste should be disposed properly at Kai Tak Ventilation Building Site.	Chemical waste had been removed at Kai Tak Ventilation Building Site during the audit session on 14 Sep 2021.							
Chemicai Management	14 Sep 2021	Chemical should be labelled and placed on drip tray at Kai Tak Ventilation Building Site.	Chemical had been removed at Kai Tak Ventilation Building Site during the audit session on 21 Sep 2021.							
Land Contamination	N/A	No environmental deficiency was identified in the reporting period.	N/A							
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A							
Permits /Licences	N/A	No environmental deficiency was identified in the reporting period.	N/A							

 Table 6.1
 Observations and Recommendations of Site Inspections

Implementation Status of Event and Action Plans

6.5 The Event and Action Plans for air quality could be referred to Appendix D of the EM&A report in Contract No. HY/2018/02.

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.6 No environmental complaints, warning, notifications of summons and successful prosecutions was received in the reporting month. The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix D**.

Status of Required Submission under Environmental Permit

6.7 Status of required submission under EP-457/2013/D during the reporting period are summarized in **Table 6.2**.

Table 6.2 Status of Required Submission under Environmental Permit

EP Condition (EP-457/2013/D)	Submission	Submission Date
Condition 3.4	Monthly EM&A Report (August 2021)	14 September 2021

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Piling works (pipe piles and sheet piles);
 - Entrusted drainage works ELS, drainage pipes/manhole casting; and
 - Excavation and Sub-structure works for Administration Building.
- 7.2 Key environmental issues in the coming two months include:
 - Stockpile accumulation on-site;
 - Water spraying for dust generating activities and on haul road;
 - Wastewater and runoff discharge from site;
 - Coverage of open manholes to avoid dirty runoff to drainage system;
 - Noise from operation of the equipment, especially for excavation works and machinery onsite;
 - Accumulation of general refuse and construction waste on-site;
 - Proper storage of construction materials on-site; and
 - Storage of chemicals/fuel and chemical waste/waste oil on-site.

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1 This is the 12th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st September 2021 – 30th September 2021 in accordance with the EM&A Manual and the requirements under the EP.

Air Quality Monitoring

8.2 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.

Landscape and visual

8.3 No non-compliance was recorded in the reporting month.

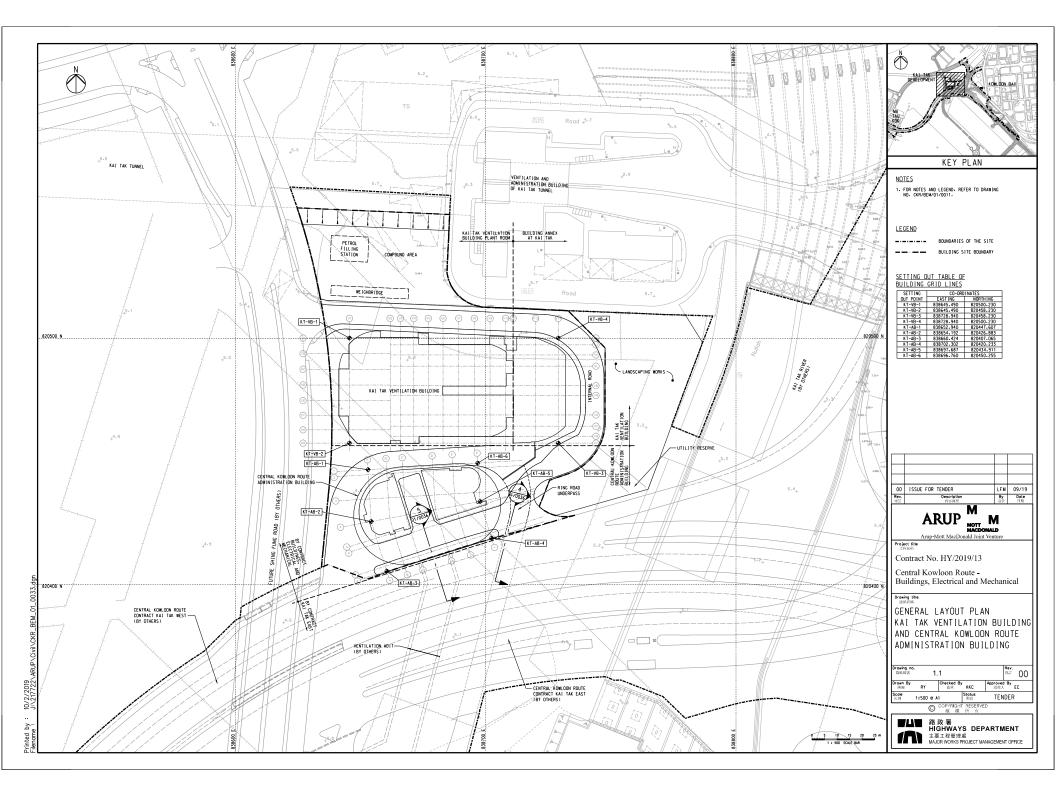
Site Audit

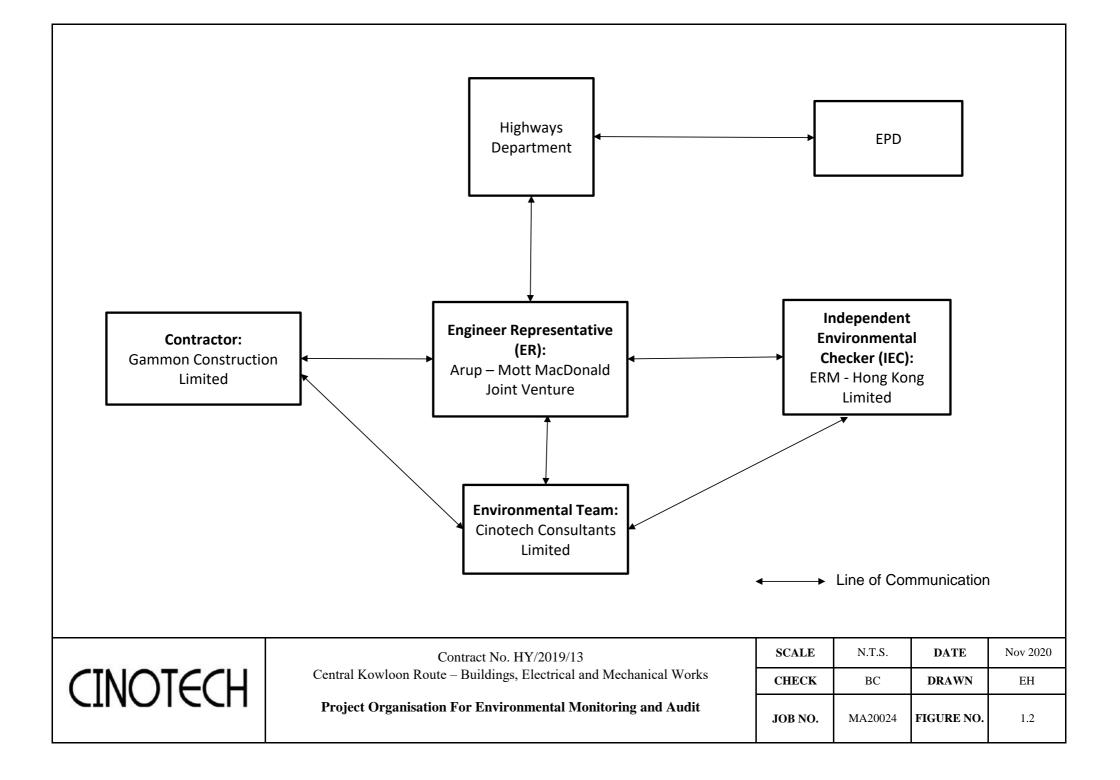
8.4 4 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 7, 14, 21 & 28 September 2021, whereas joint site inspection with the representative of IEC was conducted on 21 September 2021. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

8.5 No environmental complaints, notifications of summons and successful prosecutions were received in the reporting month.

FIGURES



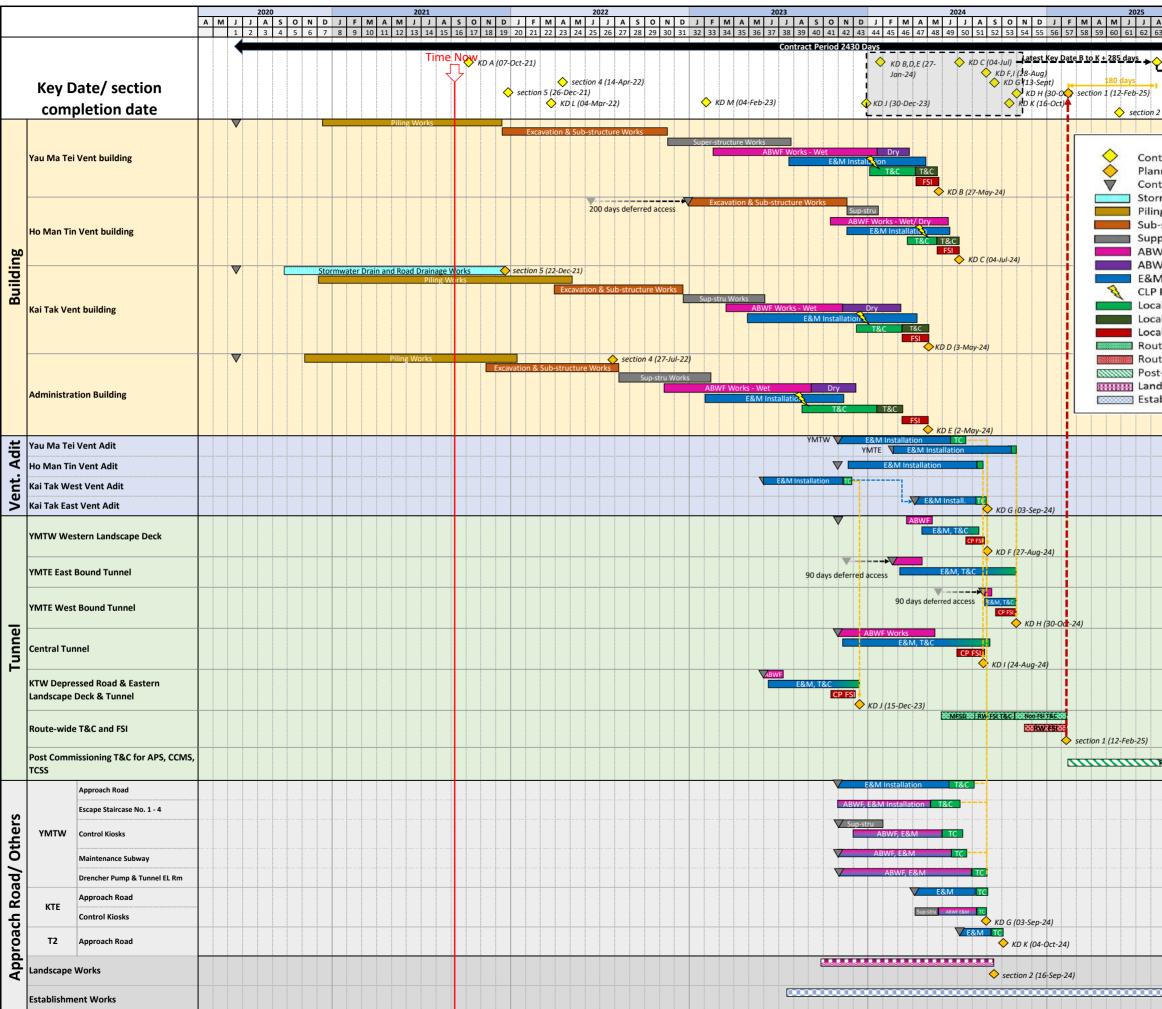


APPENDIX A CONSTRUCTION PROGRAMME



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

Summary Programme





路改著 HIGHWAYS DEPARTMENT 主要工程管理桌

										20	026							20	77	
A	S	0	Ν	D	J	F	м	Α	м	J	J	Α	S	0	Ν	D	J	F	M	Α
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	\checkmark	ระปไ	.1011 .	10	-Sep	-25)														

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 Table for 2021 (year)

		Actual Quanti	tes of Inert C&D I	Materials Genera	ted Monthly			Actual	Quantites of C&	D Waste Generat	ted Monthly	
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill (see Note 5)	Metals	Paper / cardboard	Plastics (see Note 3)	Chemical Waste	Marine Sediment	Others, e.g. general refuse
		Concrete (see Note 5)	(see Note 5)	(see Note 5)	(see Note 5)			packaging	, ,	(see Note 5)	(see Note 7)	(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	1.439	0	0	0	1.439	0	0	0	0	0	0	0.009
Sep	2.548	0	0	0	2.548	0	0	0	0	0	0	0.020
Oct												
Nov												
Dec												
Total (2021)	11.084	0	0	0	11.084	0	0	0	0	0	0	0.117
Total (whole)	17.876	0	0	0	17.876	0	0	0	0	0	0	0.177

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.						Δ
		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.						٨
		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.						٨
		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						۸
		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						٨
		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	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

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\$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

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		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

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\$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.					- 1M-D35	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&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

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\$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	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance 	۸
		Carry out on-site sorting.	C&D materials as				· ETWB TCW No.	^
		Make provisions in the Contract documents to allow and promote the use of far as practicable so as to reduce the amount for final diamonal				19/2005	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&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.	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	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	^
		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.						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

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		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.	ignated mud pit would be a possible tainment method is a method whereby the etic containers and, the containers would be aminated mud pit where they would be covered by the mud pit capping at the disposal site,			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	*
		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	*
		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.						^

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		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		N/A
l		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.						N/A

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Hazard to 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	/	^
\$9.18	Н9	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							
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> 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 Phase	/	۸
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.					۸	
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	<u>Lighting Control during Construction</u> 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 & 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.	1	Contractor	Within Project site		 '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 Latest recommended horticultural practices from GLTM Section, DEVB 	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	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	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)		1				
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	 EIAO Guidance Note No. 4/2010 TM-EIAO 	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	 EIAO Guidance Note No. 4/2010 TM-EIAO 	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: E	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: September 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.