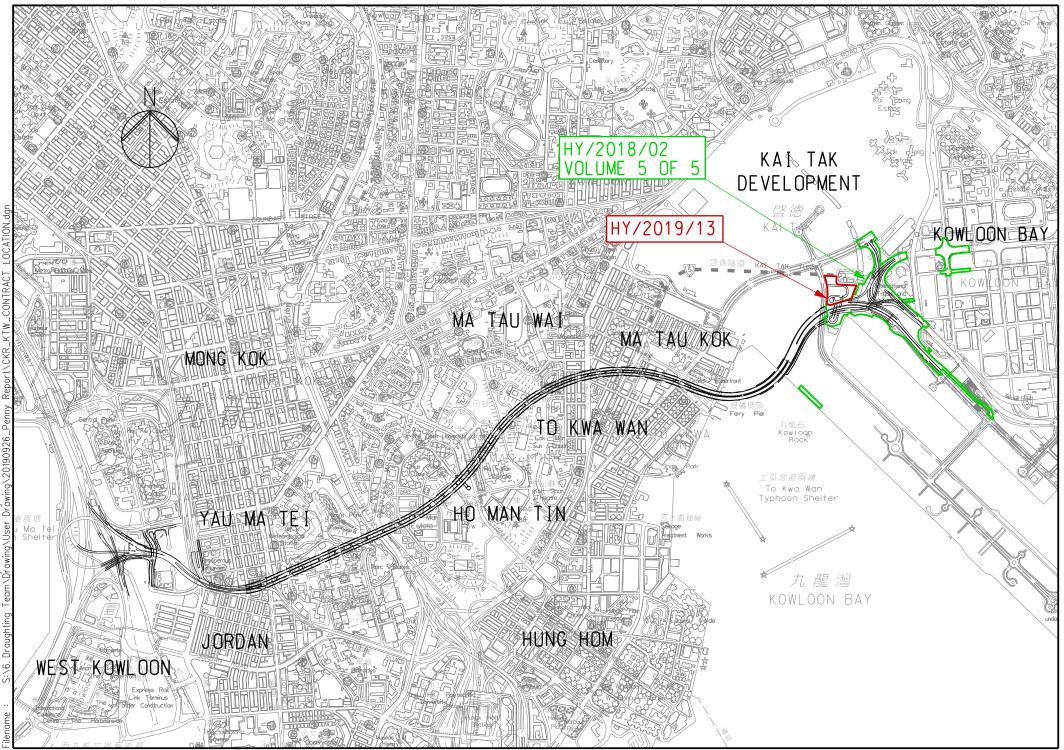
Vol. 5 of 5

EP-457/2013/D

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

&

Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area) December2021



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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.28 (December 2021)
Date of Report:	10 January 2022 (Rev. 2)
Date received by IEC:	10 January 2022

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:

10 January 2022

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.28.docx



Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 28

(Period from 1 to 31 December 2021)

Rev. 2

(10 January 2022)

		Name	Signature
Prepared by		Andres T. T. Lo (Assistant Environmental Consultant)	A
Checked Reviewed by	&	Philip Y. N. Chan (Environmental Consultant)	Philip
Approved Certified by	&	Kevin W. M. Li (Environmental Team Leader)	K.

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EXECUTIVE SUMMARY

- A.1 Alchmex Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This is the 28th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 December 2021 to 31 December 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 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 Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheet piling Work at U-Turn.
- 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	6 times
Construction dust (1-hour TSP) monitoring	
E-A1	18 times

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 1, 8, 15, 22, and 29 December 2021. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 8 December 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 8 and 22 December 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 Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheetpiling Work at U-Turn.
- Central Divider Removal at Kai Fuk Road.

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 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 Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheet piling Work at U-Turn.
- 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,

				1
Permit/ Licences/	Valid	Period		
Notification	F	То	Status	Remark
/Reference No.	From	10		
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Lie	cense			
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Constructi	on Works under	the Air Pollution	Control (Construct	ion Dust) Regulation
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Produce	r Registration			
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Dispo	sal of Constructi	on Waste		
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permi	it	1		
GW-RE0910-21	30-Sep-21	28-Mar-22	Valid	General Work for Area A
GW-RE0920-21	24-Sep-21	22-Mar-22	Valid	General Work for Area B and Site Office
GE-RE0696-21	4-Aug-21	2-Feb-22	Valid	Kai Cheung U Turns
GW-RE0857-21	13-Sep-21	12-Mar-22	Valid	Portion 2B
GW-RE1123-21	25-Nov-21 24-Feb-22	24 Eab 22	Valid	Central Divider Removal
		24-160-22		at Kai Fuk Road
GW-RE1104-21	25-Nov-21 24-Feb-22	Valid	Existing Gantry Removal	
			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 (November 2021)	14 December 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 Parameter	Monitoring Equipment	Serial Number	Date of Calibration	
1-hour TSP	LD-5R Digital Dust Indicator	761173	1 Jul 2021	
24-hour TSP	TE-5170X High Volume	1049	4 and 22 Dec 2021	
	Sampler			
	TE-5028A Calibration Kit	3702	3 Aug 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

	2
Monitoring Station	Major Dust Source
E-A1	Nearby traffic

 Table 3.4 Observation at Dust Monitoring Station

3.6.2. Air quality impact monitoring for the reporting month was carried out on 4, 10, 16, 22, 28 and 31 December 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	39 - 69	279	500
Ta	ble 3.6 Summary of 24-ho	our TSP Monitoring Result	S.
Monitoring Location	Range(µg/m ³)	Action Level(µg/m ³)	Limit Level(µg/m ³)
E-A1	31-86	142	260

Waste management

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

			Ç	Juantity		
				Non-inert C&	D Materials	
			Others,			
			e.g.	Recy	ycled material	S
D	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)			
December-2021	2170	0.00	96.08	0.05	0.00	109.04

Table 3.7 Quantities of waste generated from the Project

SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

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

Tab	ole 4.1 Environmental Co	omplaint Handling Procedur	e
Complaint Received via	Project Hotline	Complaint Received via government departments	a 1823 or from other
Contractor notify ER, ET	and IEC	ER notify Contractor, ET	and IEC
Contractor log complair	nt and date of receipt ont	to the complaint database. Co	ontractor, ER and ET to
	conduct investig	gation of complaint	
If complaint is considere	d not valid	If complaint is found valie	d
ET or ER to reply the con	mplainant if necessary	Contractor to identify at measures in consultation ER.	-
		The ER, ET and IEC to	review the effectiveness
		of the Contractor's reme	
		updated situation; ET t	
		monitoring and audit to	
		necessary, and oversee the	•
		to the complaint do not	-
		further inspection as nece	
		1	
If the complaint is refer	red by the EPD, the Con	stractor to prepare interim re	port on the status of the
complaint investigation	and follow-up actions st	ipulated above, including the	e details of the remedial
measures and additiona	e	or already taken, for submiss	sion to EPD within the
	time frame ass	igned by the EPD	
The FT to record the det	ails of the complaint res	sults of the investigation, sub	sequent actions taken to
	-	cluding the effectiveness of t	-
	-	itoring results in the monthly	
supported by leg		normg results in the monthly	, Linan reports

T-1-1- 4 1 E . 10 1. 4 TT 11.

- 3.8. 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.
- 3.9. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded during the reporting month.
- 3.10. No complaint and non-compliance were received in the reporting month.
- 3.11. No notification of summons and successful prosecution was received in the reporting period.
- 3.12. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix M.

4. EM&A SITE INSPECTION

- 4.1. 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, 22, and 29 December 2021, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 8 and 22 December 2021.
- 4.2. One joint site inspection with IEC also undertaken on 8 December 2021. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 4.1.

Date		Environmental Observations		Follow-up Status
1 December 2021	1.	Chemical should be stored with drip	1.	Chemical container was
1 December 2021		tray at portion 1a.		removed.
8 December 2021	NA		NA	
15 December 2021	NA		NA	
	1.	Sludge and oil spillage were observed	1.	The hole for lifting was sealed
		at the steel platform on river. It should		to prevent spillage.
		be cleaned and prevented immediately	2.	3-side & top screen were
22 December 2021		to avoid pollution.		provided in grouting station
	2.	Grouting station should be trapped		
		and covered to minimise dust		
		generation at Loop Road area.		
29 December 2021	NA		NA	

Table 4.1 Site Observations

- 4.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.
- 4.4. 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.

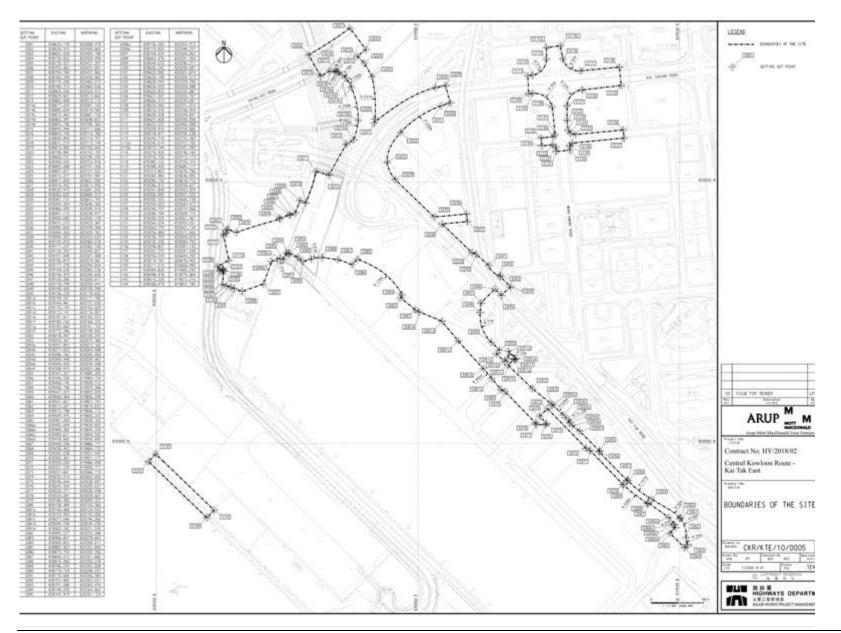
5. **FUTURE KEY ISSUES**

- 5.1. 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 Portion 3B.
 - Construction of Temporary Platform at Kai Tak Nallah.
 - Retaining Wall Construction at U-Turn & Portion 2B.
 - Sheetpiling Work at U-Turn.
 - Central Divider Removal at Kai Fuk Road.
- 5.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 5.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix N.
- 5.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

6. CONCLUSION AND RECOMMENDATIONS

- 6.1. This 28th monthly EM&A Report presents the EM&A works undertaken during the period from 1 December 2021 to 31 December 2021 in accordance with the EM&A Manual and the requirement under EP-457/2013/C and EP-457/2013/D.
- 6.2. 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.
- 6.3. 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 December 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.
- 6.4. No complaint and non-compliance situation were received in the reporting month.
- 6.5. No notification of summons or prosecution was received since commencement of the Contract.
- 6.6. 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



Acuity Sustainability Consulting Ltd.

Appendix B Construction Programme

iD	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Da	4 25 I	410	S2		(2 09	33	1 91 1	30 0	780may 34	1 20 1	1	14	97071 35 15 - 200	
DES-1380	DES - ICE directing and approval	12	10-Jan-22	22-Jan-22	07-May-22	21-May-22	90			20 05	12 1	20	09		21	30 0	13	20	21	00	10 20	
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24	24-Jan-22	26-Feb-22	23-May-22	20-Jun-22	90									_	_					
DES - Temporar	ry Works for Underpasses, Adit and Roads	98	25-Nov-21	29-Mar 22	12-Jun-21	28-04-21	-121	0.0						1								
DES_T08 - Ten	np works for construction of Sign Gantries, Lighting Poles &	62	10-Jan-22	29-Mar-22	14-Aug-21	28-04-21	-121	0.0						1								
DES-1390	DES - Prepare preliminary proposal submission	36	10-Jan-22	26-Feb-22	14-Aug-21	25-5ep-21	-121						-	-	_	_	_	_				
DES-1392	DES - TCE driedking and approval	26	28-Feb-22	29-Mar-22	27-Sep-21	28-Oct-21	-121							1					-	i i i i i i i i i i i i i i i i i i i		
DES T10 - Ten	nporary works for Traffic Deck over Underpass S3	24	25-Nov-21	22-Dec 21	12-Jun-21	13-346-21	-136	0.0						1								
DES-1404	DES - ICE checking and approval		25-Nov-21	25-Nov-21	12-Jun-21	12-Jun-21	-136															
DES-1406	DES - Project Manager checking and approval; consent to start Underpase S3		25-Nov-21	22-Dec21	15-Jun-21	13-Jul-21	-136															
					09-140-21		1089	704.0														
ONSTRUCTI					094030-21							1										
	rary Traffic Management Scheme					07:400-21																
TTM Scheme fo			23 Feb-22	18-Mar 22	07-Aug-21	07-Aug-21	-179	0.0														
KFR-TTA-L1	TTA - Kal Fuk Road - Stage 1.1		23 .Feb-22		07-Aug-21		-159							-								
KFR-TTA-1.2	TTA - Kei Fuk Road - Stage 1.2	0	11-Mar-22		07-Aug-21		-173													•		
KFR-TTA-L3	TTA - Kai Fuk Road - Stage 1.3	0	18-Mar-22		07-Aug-21		-179														•	
Section 1 - All	the Works of the Site, except Section 2 to 17	291	19-May-21-A	21-May-22	094Rep-21.	31dan-36	1091	548.0					3	1								
Sch_1 Prelimin	aries Works	216	25-Aug-21 A	21-May-22	08 Mar-21	27-Sep-21	-186	48.0														
Site Establishn	nent Works	216	25-Aug-21 A	21-May-22	08-Mar-21	27-5ep-21	-186	48.0						1								
Temporary ste	el platform over Kai Tak River	216	25-Aug-21 A	21-May-22	08-Mar-21	27-5ep-21	-186	48.0				1 1		1								
DIA Stege 1			112 Sec 21	2110-22	187-404-21	all-him-th	a line	(b),B						4								
1-2036	SE(Stage 1) - Install F3 concrete block and decking for Portion 1 (S1)	48	02-Dec-21	29-3an-22	07-Apr-21	03-3un-21	-198	6.0		-	des constitues	a fanalis										
DIA Stoge 7		38	Z-Ac-JTA	05 Oct 1 A	15 100-21	15110-21		9.0						1								
1-2060A	SE(Stage 2) - outeraxing installation for 3E-53	6	25-Auto-21 A	28-Aug-21 A	15-Mar-21	15-Mar-21		3.0														
1-2048A	SE(Stage 2) - Rebar installation; for slab reinstatment at CKRE-KS		1080180.000	25-5ep-21 A		15-Mar-21		3.0						1								
1-2048B	SE(Stage 2) - outercasing installation for CKRE-KS			05-0d-21 A		15-Mar-21		3.0														
	ortage of comparis comparison of the		ED ORD ALL			13149.81						d na da	ang bana			an a la cara da cara d		åe	1000			
1-2326A	SE(Stage 2) - Rebar installation; for slab reinstatment at 4K-54-A			08-Sep-21 A	15-Mar-21	15-Mar-21		3.0						1								
								3.0														
1-2326C	SE(Stage 4) - Identification of uncharted hard material at bore pile nos. 4K-S4-A-182 (PMI 306)			23-5ep-21 A		15-Mar-21																
1-2325A	SE(Stage 2) - Rebar Installation; for slab reinstatment at OKRW-KS			29-Sep-21 A		06-May-21		3.0						1								
1-2326B	SE(Stage 2) - outercasing installation for 4K-S4-A		10.0390.0000	16-0:0-21 A		15-Mar-21		3.0														
1-2325B	SE(Stage 2) - outercasing installation for CKRW-KS	8	30.5ep-21 A	12 Ott 21 A	06-May-21	06May-21		3.0														
1-2327C	SE(Stage 4) - Identification of unchatted hard material at bore pile nos. 4K-54-0-182 (PNI 293)	6	19-Oct-21 A	22-Oct-21 A	06-May-21	06-May-21								1								
1-2327A	SE(Stage 2) - Rebar installation; for slab reinstatment at 4K-54-8	4	23-0d-21 A	29-0d-21 A	06-May-21	06-May-21		3.0														
1-23278	SE(Stage 2) - outercasing installation for 4K-S4-B	.4	30-0d-21 A	03-Nov-21 A	06-May-21	06-May-21		3.0														
DIA Stoge 5		163	61-04721 A	11-Haren	18196-21	27-540-21	486	150														
1-2333	SE(Stage 5) - 2021/2022 - Dry season start (1 Oct 2021)	0	02-0d-21 A		08-Mar-21			3.0						-								
1-2337	SE(Stage 5) - Remove collerdam for 1D; erect F3 platform (1 nos)	18	28-0d-21 A	10-Nov-21 A	08-Mar-21	08-Mar-21																
1-23344	SE(STage 5) - Fabrication of concrete bilks and deck (on-ste)(S1/S3/CKRE)	75	08-Nov-21 A	12-Feb-22	08-Mar-21	22-May-21	-214			_			-	-		_	-					
1									1		10 54	1	24	Ŧ	1		1	-			11. N	
Current Miles											TE-WP25_M3	1				Date 20-Aug-21		SD Programm			THY.	d App DC
Adual Work Otical Rema	central Ko	oolwo)	Baseline: Lavout: KTE	- 3 Months Pr	lling Programe	18			25-Aug-21 20-Sep-21	Submit C	Nogramme MG SD Programme	e Rev 23	_	TYY TYY	DC
Bornaning V			Th	ree Mon	th Roll	ing Prog	gramn	ne				ning Programm s Rolling_1, K		ssion.		25-Sep-21 20-Oct-21	Monthly P	Yogramme MG	29		TYY	DC

ta Date: 25-Nov-2 nt Date: 09-Dec-2					Centr	100	loon	10.5	IY/2018/02 te - Kai Tak East				A	Chmex - Paul	Y Joint Ver	ture	
viD	ActivityName		Orig Dur	Sterl	Finish	Late Start	Late Finish	Totel Float	TRA (Day)	Novembar 31	Decomber 32	Januar 33		Fabri 34	ray	Ma 3	ch 5
entral Kowl	oon Route - Kai Tak East (Month	1 30 Update) (Re	639	28-Feb-20 A	21-May-22	09-Feb-21	31-Jan-26	1089	704.00	24 31 07 14 21	28 05 12 19	26 02 09	16 23	30 06	13 20 27	06 1	3 20 27
RELIMINA	RIES AND GENERAL REQUIREM	ENTS	112	11-Nov-21 A	15-Mar-22	(5-Deo-2)	08-Mar-23	287	0.00								
Salient Key I	Dates and Milestones																
Key Dates			0	05-Jan-22	05-Jan-22	05-Dec 21	05-Dac/21	-31	0.00								
Sections of th	ne Works		0	05-Jan-22	05-Jan-22	05-Dec-21	05-Dec-21	-31	0.00								
KD-12	KD12 - Sixtion 12 Completion of Struct. of Und	erpase S21 Allow access to	0		05-Jan-22*		05-Dec-21	-31									
Independent	182,102,104,20,2E,30 for Utl (646d) t Safety Audit Scheme ACC D31(5)		0	2100022	aletine12	07-Mar-23	07-160-23	110	0.00								
Safety Aduit			0	21-Jan-22	21-Jan-22	07-Mar-23	07-Mar-23	410	0.00								
SA-1112	6th Safety Audit at 6 months intervals		0	21-Jan-22		07-Mar-23		410									
Utilities Sche	edule (WSD/DSD/CLP/TG/PCCW/	HK8/ATC/KT Tur	112	1146601 A	15-Min-22	1846-22	08-Ma-23	287	6.00								
Utilities Month			112	11-Nov-21 A	15-Mar-22	18-Nov-22	08-Mar-23	287	0.00								
UU-1044	11st. Utilities monthly meeting			11-Nov-21 A		18-Nov-22				•							
UU-1046	12nd Utilities monthly meeting		0	07-Jan-22		30-Dec-22		287				5.5					
UU-1048	13rd Utilities monthly meeting		0	15-Mar-22		08-Mar-23		287									
	DENGINEERING			28-5-0-20 A	20-Min-22	12-309-21	11-400-22	105	0.00								
	Design & Engineering									iner and a second s			and protone			apan ka	a san an
	ndation of Ring Road Underpass & Venti	Intian Ada		28-Feb-20 A	26.404.21	10-Aug-22	11-Aug-22	204	0.00								
				28-Fm-20 A		10-Aug-22	11-Aug-22	204	0.00								
DES-0198	ign for Foundation of Ring Road Underpa CSD-F Submit to PM & all relevant parties for revi			28-Feb-20 A		10-Aug-22	11-Aug-22	204	0.00								
DES-0198		iew and approval	51	28-100-20 A		10-AUG-22						1 1 1					
	CSD-F Consent to start the works		1. 3		26-Nov-21		11-Aug-22	204	-								
	Works Design & Engineering			07.5e)-21 A		12500521	20-040-82	- 64	0.00								
	ary Works for Bridges			07-5ep-21 A		17-Jun-21	20-3/n-22	78									
	emp working platform for Bridge S1/S9 (over Kai Fuk Road		07-5ep-21 A		19-Jun-21	19-3al-21	-131	0.00								
DES-1320	DES - ICE checking and approval			07-Sep-21 A		19-Jun-21	19-Jun-21	-131									
DES-1322	DES - Project Manager checking and approval; o works			25-Nov-21	22-Dec-21	21-Jun-21	19-Jul-21	-131									. down bio
	amp working platform for Bridge S7 over	Kai Cheung Slip Roa		25-Nov-21	12-Mar-22	17-Jun-21	24-Sep-21	-134	0.00						1		
DES-1324	DES - Prepare preliminary proposal submission			Z5-Nov-21	08-Jan-22	17-Jun-21	29-346-21	-134									
DE5-1326	DES - ICE checking and approval			10-Jan-22	12-Feb-22	30-Jul-21	26-Aug-21	-134				-					
DES-1328	DES - Project Manager checking and approval; o works			14-Feb-22	12-Mar-22	27-Aug-21	24-Sep-21	-134							4 4	E2 8	
	emp working platform for Bridge S2 & S8	8 over KF Rd & KC Rd		25-Nov-21	12-Mar-22	03-Jul-21	29-Apr-22	37	0.00								
DES-1330	DES - Prepare preliminary proposal submission			25-Nov-21	08-lan-22	03-3ul-21	13-Aug-21	-121									
DES-1332	DES - ICE direcking and approval			10-Jan-22	12-Feb-22	01-Mar-22	28-Mar-22	37									
DES-1334	DES - Project Manager checking and approval; o works	present to start the Portal	24	14-Feb-22	12-Mar-22	29-Mar-22	29-Apr-22	37									
DES_T17 - EL	LS Design for Bridge S8 - 8A-S8 to 8D-S8	k:	72	254Nov-21	26-Rab-22	21-Mar-22	20-3un-22	90	0.00								
DES-1378	DES - Prepare preliminary proposal submission		36	25-Nov-21	08-Jan-22	21-Mar-22	06 May 22	90									
Current Mi Actual Wo Otital Ren Homaning	dk nairing Work	Central Ko	owloc				t (Monti ng Prog			e) (Rev25 - CSD)	Project ID: KTE-WP25_M31 Baseline: Layout: KTE - 3 Months Rolling P Filter: TASK filters: 3 Months Rol Page 1 of 17			25-Aug21 Mon 20-Sep21 Sub 25-Sep21 Mon 20-Oct-21 Sub 25-Oct-21 Mon	Revision nit CSD Programme New Inty Programme N28 nit CSD Programme Rev Inty Programme N20 nit CSD Programme N30 Inty Programme N30	23 24	Checked Approx TYY DC TYY DC

ID	Activity Name	Org Dur Start	Finish	Late Start	Late Finish	Total Ficat	TRA (Da)	31 16 21	1 4	1 05 1	32 12 1 46	1.36	101	Jan. 3	3 16	- 29 - 1	38.1	Februa 34 06 11	i in an	1 27 1	06	35 13	8 1 8
1-2334	SE(Stage 5) - Install F3 concrete block and decking for Portion 2 (\$1/\$3/CKRE)	60 02-Dec 21	19-Feb-22	15-Mar-21	29:May-21	-214	6.0	14 2	20	0.5	12 19	26	.02			24	30	00 1.	20	21		10 0	0 2
1-2334B	SE(STage 5) - Fabrication of concrete tilks and deck (on-ste)(CKRW/S4)	65 14 Fcb -22	05-May-22	05-Jul-21	18-Sep-21	-179								-				-	_		_	_	
1-2336	SE(Stage S) - Install F3 concrete block and desking for Portion 3 (OGRW/S4)	72 21-Feb-22	21-May-22	05-Jul-21	27-Sep-21	-186	6.0	1				1		İ					-	1		-	-
Sch_3.1 Bridge	e S1 Works	201 02-5ep-21	30-Mar-22	15-Mar-21	12-34-21	-212	25.0																
S1 - Piling Wo	rks	76 02-5ep-21	A 23-00-21 A	15-Mar-21	27-Mar-21		4.04							100									
Piling Works -	Pier P-1E-S1	76 02-Sep-21	A 23-00-21 A	15-Mar-21	27-Mar-21		4.0					1		1									
3.1-2304	S1 - Bored Piles for 1E-S1-1 (1 n/)	45 02-5ep-21	4 27-Sep-21 A	15-Mar-21	15-Mar-21		4.0							1									
3.1-2305	S1 - 1E-S1 Proof driling & Piles testing	24 20-Oct-21	23-00-21 A	27-Mar-21	27-Mar-21		0.0																
S1 - Pile Caps	, Pier / Abutment	61 17-Nov-21	A 06-3an-22	26-Mar-21	10-May-21	-198	7.0																
Abutment 1A-		34 25-Nov-21	06-Jan-22	26-Mar-21	10-May-21	-198	4.0							-									
3.1-2328	S1 - Construct Abutment A-IA-SL	24 25-Nov-21		26-Mar-21	27-Ape-21	-198	3.0		_	1	_												
3.1-2330	S1 - A-1A-S1 Install Permeete Membrane and Backfill	10 23-Dec 21		28-Apr-21	10 May 21	-198	1.0					-	_										
Pier 1E-S1		60 174lov-21		27-Mar-21	10-May-21	-197	3.0	÷				-								-			
3.1-2332	S1 - Prepare Pile Head for 1E-S1 inside confertiam	12 17-Nov-21		27-Mar-21	17-Apr-21	-197	1.0			_													
3.1-2332	S1 - Frighte Fre Had full (E-S1 / Sole Onicidani S1 - Construct Pier IE-S1 (2 LiPs)	12 1740v21 18 13-0æ-21		19-Apr-21	10-May-21	-197	2.0	12-14				1											
51 - Deck	SA - Sectores (RE 12/34 (A 189)	36 16-Feb-22		10-May-21	12-Jul-21	-212	14.0				1	1		1									
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S1 - Span 1A-		36 17-Feb-22		11-May-21	23-Jun-21	-227	6.0	1	3			4									i. i		
3.1-2358	51 - Span 1A-1E Palaework and formworks	30 17-Feb-22		11-May-21	16-Jun-21	-227	4.04							1								12	
3.1-2359	51 - Span 1A-1E Install Bearings	6 24-Mar-22		17-Jun-21	23-Jun-21	-227	2.0							1									i.
S1 - Span 1E-		34 16 Feb-22		10-May-21	12-34-21	-210	8.0																
3.1-2368	Completion of Pier/Portal 1D-S1 / S9	0	16-feb-22		10-May-21	-227	2.0											2					
3.1-2372	S1 - Span 1E-1D Falsework and formworks	25 21-Feb-22		04-)un-21	05-Jul-21	-210	4.0																
3.1-2374	S1 - Span 1E-1D Install Bearings	6 22-Mar-22	28-Mar-22	05-Jul-21	12-34-21	-210	2.0							1									-
Sch_3.2 Bridge	e S2 Works	215 04-Juni-21	A 20-Apr-22	07-Jul-21	06-Jul-22	62	61.0																
S2 - Pilling Wo	rks	126 04-Jun-21	4 22-Dec-21	21-Aug-21	12-Mar-22	60	0.0																
Piling Works -	- ABUT A-2A	24 25-Nov-21	22-Dep21	27-Aug-21	24-Sep-21	-74	0.0																
3.2-2502	52 - 2A Proof drilling & Pilestesting	24 25-Nov-21	22-Dec-21	27-Aug-21	24-Sep-21	-74	0.0			-													
Piling Works -	Pier P-2D	24 04-Jun-21	A 26-Nov-21	11-Mar-22	12-Mar-22	82	0.0					1		1									
3.2-2514	S2 - 2D Proof drilling & Piles testing	24 04-Jun-21	A 26-Nov-21	11-Mar-22	12-Mar-22	82	0.0							-									
Piling Works -	Fier P-2F	24 30-5ep-21	4 08-00-21 A	21-Aug-21	21-Aug-21		0.0							-									
3.2-2522	52 - 2F Proof drilling & Piles testing	24 305ep-21	4 08-000-21 A	21-Aug-21	21-Aug-21		0.0							1						1			
S2 - Pile Caps	, Pier / Abutment	180 25-5ep-21	4 20-Apr-22	07-Jul-21	06-Jul-22	62	61.0							1									
Pier 2A		68 17-Jan-22	13-Apr-22	25-Sep-21	15-Dec-21	-92	7.0	1				1		- (1			
3.2-2532	S2 - Install sheetplie for pile cap 2A	5 17-Jan-22	21-Jan-22	25-Sep-21	30-Sep-21	-92	1,0								-								
3.2-2534	S2 - Excavation down to formation level C-2A	10 22-Jan-22	09-Feb-22	02-Oct-21	13-00-21	-92	0.0									_	_	-					
3.2-2536	S2 - Prepare pile head (2 ms) 2A	9 10-Feb-22		15-0d-21	25-Oct-21	-92	1,04											-					
3.2-2538	S2 - Construct pile cap C-2A	15 21-Feb-22	0. 3223200E	26-Oct-21	11-Nov-21	-92	2.0												-				
3.2-2540	S2 - Construct Pier P-2A (3 Lifts)	29 10 Mar 22		12-110-21	15-Dec 21	-92	3.0													-		_	
Current Mic		(owloon Rou	to - Kol	Tak For	t (Mont	h 20 I	Inde		Proje		-WP25_M31		1 2		-		Dal 20-Aug-2 25-Aug-2	1 Submi		Rovision mme Rev 22		Chode Triy	d Ap DC DC
Otizal Rem	whing Work		ite - Kai iree Mor					30)	Layo Filte	ut: KTE - 3	Months Roll ars: 3 Monthe			ubmissio	in.		20-5492 25-549-2 25-04-2 20-04-2 20-Nor-2	1 Submi 1 Month 1 Submi 1 Month	I CSD Progra V Programme I CSD Progra V Programme	mme Rev 23 M29 mme Rev 24		11Y TYY TYY TYY TYY	00 00 00 00 00 00

D	Activity Name	04	Dur Start	Firish	Late Start	Late Finish	Total Float	TRA (Day)	November 31 31 07 14 21	128 1 6	December 32	19 36	1 62	Janu 33	16	21	36 06	Fabruary 34	1 20	1 27 1	06	roh 15 13 90	
Pier 2B			71 17-Jan-22	20-Apr-22	21-5ep-21	15-Dec-21	-95	9.00		20 0.		10 20	, vi			24	30 0		20			10 20	-
3.2-2542	52 - Install sheetpile for pile cap 28		6 17-Jan-22	22-Jan-22	21-5ep-21	28-Sep-21	-95	1.00							-								
3.2-2544	S2 - Exavelian down to formation level C-28		12 24-Jan-22	12-Feb-22	29-Sep-21	13-Oct-21	-95	2,00						1 1		-	-	-					
3.2-2546	52 - Prepare pile head (2 nrs) C-28		9 14-Feb-22	23-Feb-22	15-04-21	25-0:8-21	-95	1,00										-	-				
3.2-2548	52 - Construct pile cap C-2B		15 24-Feb-22	12-Mar-22	26-0d-21	11-Nov-21	-95	2.00													-		
3.2-2550	S2 - Construct Pier P-2B (3 Lifts)		29 14-Mar-22	20-Apr-22	12-Nov-21	15-Dec-21	-95	3.00														-	-
Pier 2CL/2CF			150 25 540-21	4 11-Mar-22	27-Nov-21	14-Mar-22	2	12.00						1 1									
3.2-2556	S2 - Prepare pile head (4 nrs) C-2CR & C-2CL		17 25-Sep-21	A 23-Od-21 A	27-Nov-21	27-Nov-21		1.00															
3.2-2560	S2 - Construct pile cap C-2Q.		10 25-Oct-21 /	23-Dec-21	04-Jan-22	08-Feb-22	31	2.00															
3.2-2558	S2 - Construct pile cap C-2CR		11 25-Od-21 /	23-Dec-21	27-Nov-21	28-Dec-21	2	3.00	in the second	-		-							1	-			
3.2-2562	52 - Construct Pier P-2CR (3 Lifts)		29 24-Dec-21	29-Jan-22	29-Dec-21	08-Feb-22	2	3.00				-	-		_								
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)		29 31-Jan-22	11-Mar 22	09-Feb-22	14-Man22	2	3.00				1						-	_		_		
Pier 2DL/2DI	L		82 24-Dec-21	09-Apr-22	14-Mar-22	06-346-22	68	13.00															
3.2-2565	S2 - Install sheetpile for pile cap 2DL/2DR		6 24-Dec-21	03-Jan-22	14-Mar-22	19-Mar-22	59	1.00				_	<u> </u>										
3.2-2568	52 - Excavation down to formation level 2DL/2DR		11 04-Jan-22		21-Mar-22	01-Apr-22	59	2.00					-										
3.2-2570	52 - Prepare pile head (4 nrs) C-2DR & C-2DL		17 17-Jan-22	11-Feb-22	02-Apr-22	26-Apr-22	59	1.00							0								
3.2-2572	S2 - Construct pile cap C-2DR		9 12-Feb-22	22-Feb-22	27-Apr-22	07-May-22	59	1.00				1		1 1				-	-				
3.2-2574	S2 - Construct Pier P-2DR (3 Lifts)		29 23-Feb-22		01-Jun-22	06-348-22	78	3.00											-	1			
3.2-2576	52 - Construct pile cap G-2DL		10 23-Feb-22	05-Mar-22	10-Max-22	20-May-22	59	2.00															
3.2-2578	S2 - Construct Per P-2DL (3 Lifts)		29 07-Mar-22		21-May-22	24-Jun-22	59	3.00	<u> </u>												-		
Pier 2EL/2ER			136 06-0d-21 A		07-Jul-21	24-3un-22	80	13.00															
3.2-2580	S2 - Install sheetpile for pile cap 2EL/2ER		7 06-Od-21			07-34-21		1.00															
3.2-2582	52 - Excavation down to formation level 2EL/2ER		13 03-Nov-21		07-34-21	20-346-21	-118	2.00						1 1									
	52 - Prepare pile head (3 nrs) C-2ER & C-2EL											1		1 1	1								
3.2-2584			13 09-Dec-21		21-Jul-21	04-Aug-21	-118	2.00				-	1.										
	S2 - Construct pile cap C-2ER		12 24-Dec-21	10-Jan-22	05-Aug-21	18-Aug-21	-118					-	1										
3.2-2588	S2 - Construct pla cap C-2EL		12 11-Jan-22		19-Aug-21	01-Sep-21	-118	2.00								"	-						
3.2-2590	S2 - Construct Pier P-2ER (2 Lifts)		20 11-Jan-22		26-4pr-22	20-May-22	80	2.00									T.						
3.2-2592	S2 - Construct Pier P-2EL (3 Lifts)		29 10-Feb-22		21-May-22	24-Jun-22	80	3.00				1						-	1	1			
Abutment 2F			58 01-Nov-21		21-Aug-21	30-Oct-21	-91	7,00						1									
3.2-2595	52 - Excavation down to formation level A-2F		11 01-Nov-21)		21-Aug-21	02-5ep-21	-91	2.00															
3.2-2598	52 - Prepare pile head (3 nrs) A-2F		13 22-Dec 21	08-Jan-22	03-Sep-21	17-5ep-21	-91	1.00				-											
3.2-2600	S2 - Construct Abutment Base A-2F		14 10-Jan-22	25-Jan-22	18-Sep-21	05-Oct-21	-91	2.00						-	Ð	•							
3.2-2602	S2 - Construct Abutment A-2F		20 26-Jan-22	24-Feb-22	07-Od-21	30-Oct-21	-91	2.00								-	-	-					
Sch_3.3 Bridg	e 53 Works		149 09-Sep-21 /	24-Mar-22	15-Mar-21	19-Nov-22	195	23.00															
53 - Piling W	orks		79 09-5ep-21	22-Dec-21	15-Mar-21	30-Sep-22	224	4.00															
Pilling Works	- Pier P-3E-S3		79 09-Sep-21	22-Dec-21	15-Mar-21	30-Sep-22	224	4,00															
3.3-2804	S3 - Bored Piles for 3E-S3 (1 m)		36 09-Sep-21	21-00-21 A	15-Mar-21	15-Mar-21		4.00															
3.3-2805	53 - 3E-S3 Proof driling & Piles testing		24 25-Nov-21	22-Dec21	02-Sep-22	30-Sep-22	224	0.00				•											
Current M	istore								15	Project ID	KTE-WP25 N	131				1	Date 20-Aug-21	Subar C	1 CSD Program	tovision mie Rev 22		Chocked Triv	DC
Actual Wo Citical Rec Remaining	nahing Work	Central Kowl		te - Kai Iree Mor					Rev25 - CSD)	Baseline: Layout: K	TE - 3 Months F SK filters: 3 Mor	Rolling Prog		Submissio	n.	9	25-Aug/21 20-Sep/21 25-Sep/21 25-Sep/21 20-Od-21	North/F Submit C Month/F	200 Programme 200 Program Programme 200 Program	M28 Ime Rev 23 M29			DX DX DX
										Page 4 of	17					- 3	25-0d-21 20-Nor-21	Monthly F	Programme I CSD Program	CEN		TYY TYY	D

)(Activity Name	Org Du	r Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	November 31 07 14 21	1 38 1 05	December 32 12 46	1 36	010	10487y 33	21 30	Februar 34	1 20 1	27 05	Merch 35	1 30
ng Works -	ABUT A-3D-S3	2	4 04-00-21 A	24-Nov-21 A	08-Sep-22	08-Sep-22		0.00		20 05	12. 19	- 20	14 05	1.01	24	00 10	20	21 00	10	20
3-2814	53 - ABUT A-3D-53 Proof chilling it. Piles testing	2	04-Oct-21 A	24-Nov-21 A	08-Sep-22	08-Sep-22		0.00												
Pile Caps,	Pier / Abutment	7	0 23-Dec-21	24-Mar-22	26-May-21	19-Nov-22	195	19.00												
utment 3A-S	3	2	9 08-Feb-22	12-Mar-22	26-May-21	19-Nov-22	205	4.00						1						
3-2826	53 - Construct Abutment A-3A-53	P	9 08-Feb-22	01-Mar-22	26-May-21	17-Jun-21	-207	3.00								-	-	•		
3-2828	53 - A-3A-53 Install Permeete Membrane and Back	1 1	02-Mar-22	12-Mar-22	09-Nov-22	19-Nov-22	205	1.00										C	-	
er 3E-S3		4	23-Dec-21	18-Feb-22	03-Oct-22	19-Nov-22	224	9.00				4		1						1 mar
3-2830	S3 - Prepare Pile Head for 3E-S3		5 23-Dec-21	30-Dec-21	03-Oct-22	08-Oct-22	224	1.00				÷		11						
3-2834	S3 - 3E-S3 Reinstatement of Stab of Kai Tak River	1	8 31-Dec-21	21-Jan-22	10-Oct-22	29-Oct-22	224	6.00					_	-						
3-2832	S3 - Construct Pier 3E-S3 (2 LIfts)	5	8 22-Jan-22	18-Feb-22	31-Oct-22	19-Nov-22	224	2.00				1 1	3		_	-	-			
utment 3D-5	53	5	0 19-Jan-22	24-Mar-22	08-Sep-22	08-Nov-22	185	6.00												
3-2845	S3 - Prepare pile head (3 nrs) A-3D-53	1	3 19-Jan-22	09-Feb-22	08-Sep-22	23-5ep-22	185	1.00				4				-				
3-2849	53 - Construct Abutment Base A-3D-53	2	1 10-Feb-22	05-Mar-22	24-5ep-22	20-Oct-22	185	3.00								-		-		
3-2850	S3 - Construct Abutment A-3D-S3		5 07-Mar-22	24-Mar-22	21-Oct-22	08-Nov-22	185	2.00										-	4	-
3.4 Bridge	S4 Worke		8 02-Sep-21 A		15-Mar-21	10-May-22	8	55.00												
Piling Wor			0 24-Sep-21 A	a secondaria	15-Mar-21	29-Dec-21	-42	16.00												
tourns and house	Pier P-4K-S4-A		4 01-Nov-21 /		15-Mar-21	25-Nov-21	-69	8.00												
4-3024	S4 - Bored Piles for 4K-S4-A-2 (1 nr)		4 01-Nov-21 A		15-Mar-21	16-Mar-21	-208	4.00												
+3028	54 - 4K-54-A-2 Proof driling & Piles testing		4 27-Nov-21	24-Dec21	29-Oct-21	25-Nov-21	-200	0.00			14.			11						
								20200				1		-						
4-3016	S4 - Bored Piles for 4K-S4-A-1 (1 nr)		3 10-Dec 21	20-Jan-22	19-Apr-21	28May-21	-195	4.00				1						E.		
4-3020	54 - 4K-54-A-1 Proof drilling & Piles testing		4 21-Jan-22	24-Feb-22	29-May-21	26-Jun-21	-195	0.00												
	Pier P-4K-54-B		4 11-Nov-21 A		06-May-21	29-Dec-21	-42	8.00						11						
4-3025	54 - Bored Piles for 4K-S4-B-2 (1 nr)		5 11-Nov-21 A		06-May-21	20-May-21	-168	4.00												
4-3018	54 - Bored Piles for 4K-S4-B-1 (1 m)		9 15-Dec-21	20-Jan-22	27-May-21	30-3un-21	-168	4.00				1.	-	-						
4-3030	S4 - 4K-S4-B-1 Proof drilling & Piles testing	2	4 28-Dec-21	25-Jan-22	30-Nov-21	29-Dec-21	-22	0.00				-								
4-3022	54 - 4K-S4-B-1 Proof driling & Piks testing	2	\$ 21-Jan-22	24-Fcb-22	02-Jul-21	29-3al-21	-168	0.00												
ing Works -	Pier P-4E-54	2	4 24-Sep-21 A	02-00-21 A	29-May-21	29-May-21		0.00												
4-3034	S4 - 4E-S4 Proof drilling & Plesteeting	2	4 24-Sep-21 A	02-06-21 A	29-May-21	29-May-21		0.00												
ing Works -	Pier P-4F-S4	2	4 26-0d-21 A	28-00-21 A	29-May-21	29-May-21		0.00												
4-3038	54 - 4F:54 Proof drilling & Pilestesting	2	4 26-0d-21 A	28-Oct-21 A	29-May-21	29-May-21		0.00												
ng Works -	Pier P-4J-S4	2	07-Oct-21 A	09-00-21 A	29-May-21	29-May-21		0.00												
4-3046	S4 - 43-S4 Proof drilling & Piles testing	2	07-Oct-21 A	09-Oct-21 A	29-May-21	29-May-21		0.00								1				
- Pile Caps,	Pier / Abutment	18	8 02-Sep-21 A	28-Apr-22	28-Jun-21	10-May-22	8	39.00												
er 48-54-A		1	8 02-Sep-21 A	12-00-21 A	28-Jun-21	28-3un-21		2.00												
.4-3068	S4 - Construct Pier 4B-S4-A (2 Lifts)	1	8 02-5ep-21 A	12-00-21 A	28-Jun-21	28-Jun-21		2.00												
er 48-54-8		1	8 02-Sep-21 A	12-00-21 A	30-Dec-21	30-Dec-21		2,00						11						
.4-3078	S4 - Construct Pier 48-S4-8 (2 Lifts)	1	8 02/5ep-21 A	12-00-21 A	30-Dec-21	30-Dec-21		2.00			• • • • • • • • • • • • • • • • • • •			1			aprilled a			inner I
er 4K-S4-A-1		5	25 Feb-22	28-Apr 22	28-Jun-21	25-Aug-21	-195	10.00												
_										i d		- 4 - 4 - C		4	Da		- Res	vision		Thoused
Current Miles Adual Work Otical Rema Romaning W	ing Work	Central Kowlo		te - Kai ' ree Mor					CSD)	Baseline: Layout: KT	KTE-WP25_M31 E - 3 Months Roll K filters: 3 Months			sion.	20-Aug- 25-Aug- 20-Sep- 25-Sep- 20-Od-2	21 Submit 21 Monthly 21 Submit 21 Monthly	CSD Programme Mg CSD Programme Mg CSD Programme Mg Programme Mg CSD Programme	se Rev 22 28 se Rev 23 29	רוד דויז דויז	Y Y Y Y
										Page 5 of					25-0d-2 25-0d-2 20-Nore	1 Months	CSD Programme MC CSD Programme MC	30	111	Y

ib	Activity Name	0	kig Dur Start	Finish	Late Start	Late Finish	Total Ficat	TRA (Day)	November 31	Dec	enber 32	30			Fabruary 34		on 1 or 1	March 35	
3.4-3080	S4- Prepare Pile Head for 4K-S4-A-1	12	5 25-Feb-2	2 02-Mar-22	28-Jun-21	03-306-21	-195	1.00	24 31 07 14 21	28 05 1	z 19 26	02 09	16 2	30	06 13	20 2	27 06	13 20	0
3.4-3084	54 - 4K-54-A-1 Reinstatement of Slab of Kai Tak Riv	as .	18 03-Mar-2	2 23-Mar-22	05-Jul-21	24-Jul-21	-195	6.00									-	-	
3.4-3082	S4 - Construct Pier 4K-S4-A-1 (3 Lifts)		27 24-Mar-2	2 28-Apr-22	26-Jul-21	25-Aug-21	-195	3.00										1.	_
Pier 4K-S4-A-2	2		23 03-Mar-2	29-Mar-22	30-Jul-21	25-Aug-21	-173	7.00	· · · · · · · · · · · · · · · · · · ·										
3.4-3085	54 - Prepare Pile Head for 4K-S4-A-2		5 03-Mar-2	2 08-Mar-22	30-30-721	04-Aug-21	-173	1.00									_		
3.4-3090	54 - 4K/54-A-2 Reinstatement of Slab of Kal Tak Riv	AS .	18 09-Mar-2	2 29-Mar-22	05-Aug-21	25-Aug-21	-173	6.00								1 1		_	-
Pier 4E-S4			72 12-04-21		17-Feb-22	18-Reb-22	63	3.00								1 1			
3.4-3107	S4 - Install sheet pile for pile cap 4E-S4		8 12-Oct-21	A 16-Od-21 A	17-Feb-22	17-feb-22													
3.4-3109	S4 - Excavation down to formation level			A 30-0d-21 A		17-Feb-22										+-+			
3.4-3109	S4 - Prepare Pile Head (1nr) for 4E-54			A 13-Nov-21 A		17-Feb-22		1.00											
3.4-3110	S4 - Construct Pile Cap 4E-S4		17 15-Nov-21		17-Feb-22	18-Feb-22	63	2.00											
	SHI CONSECUTIVE CODINE-SHI						33	8.00											
Pier 4F-S4 3.4-3114	54 - 4F-54 ELS		43 28-Jan-2		15-Mar-22	10 May-22 18-Mar-22	33	1.00						_	_				
			4 28-Jan-Z											1					
3.4-3116	S4 - Excavation Down to Formation Level 4F-S4		11 09-Feb-2		19-Mar-22	31-Mar-22	33	2.00											
3.4-3118	S4 - Prepare Pile Head (2nrs) for 4F-S4		10 22-Feb-2		01-4pr-22	13-Apr-22	33	2.00								1			E.
3.4-3120	S4 - Construct Pile Cap 4F-S4		18 05-Mar-2		14-Apr-22	10-May-22	33	3.00											1
Pier 4G-54			19 06-Jan-2	2 27-Jan-22	21-Feb-22	14-Mar-22	33	0.00											
3.4-3132A	54 - Construct Pier 4G-54 (2 Lifts)		19 06-Jan-2	2 27-Jan-22	21-Reb-22	14-Mar-22	33							3					
Pier 4J-54			85 23-Oct-21	A 26-Nov-21	21-Sep-21	23-5ep-21	-53	7.00	_										
3.4-3136	S4 - Install sheet pile for pile cap 43-S4		8 23-Oct-21	A 27-00-21 A	21-Sep-21	21-Sep-21		4.00											
3.4-3137	54 - Excevation down to formation level		6 28-Oct-21	A 10-Nov-21 A	21-Sep-21	21-Sep-21													
3.4-3138	S4 - Prepare Pile Head (1 nr) for 43-54		5 11-Nov-21	A 16-Nov-21 A	21-Sep-21	21-Sep-21		1.00											
3.4-3140	54 - Construct Pile Cap 43/54		17 18-Nov-21	A 26-Nov-21	21-5ep-21	23-Sep-21	-53	2.00											
Sch_3.5 Bridge	S7 Works		153 08-Sep-21	A 29-Mar-22	09-Feb-21	30-Aug-22	124	24.00											
S7 - Pilling Wor	rks		188 18-5ep-21	A 29-Mar-22	09-Rep-21	14-Jun-21	-282	13.00											
Piling Works -	Pier P-78		188 18-5-m-21	A 29-Mar-22	09-800-21	14-Jun-21	-282	13.00											
3.5-3400-2	57 - Bored Piles for 78-57-2 Part 1 (upto - 87.45m)	PD) (CNCE-0045)	76 18-Sep-21	A 03-Dec-21	09-Feb-21	21-Feb-21	-282	7.00											
3.5-3400-20	S7 - Bored Pikes for 7B-S7-2 Part 2 (CNCE-0045)		25 04-Dec-2	1 28-Dec-21	22-Feb-21	18-Mar-21	-282	0.00		-	4 4								
3.5-3400-1	57 - Bored Piles for 78-67-1 Part 1 (upto -74.0mPC	0) (CNCE-0045)	55 29-Dec-2	25-Feb-22	19-Mar-21	13-May-21	-282	6.00					ine free	inder och			and heard	with ord lighted	- Ann
3.5-3400-10	57 - Bored Piles for 7B-57-1 Part 2 (CNCE-0045)		32 26-Feb-Z	2 29-Mar-22	14-May-21	14-3un-21	-282	0.00									_	_	-
S7 - Pile Cans	Pier / Abutment		91 08.5cp-21		11-Jun-22	30-Aug-22	158	11.00											
Pier 7C	rie / Automati		71 08-Sep-21		11-3/1-22	30-Aug-22	178	3.00											
3.5-3423A	S7 - Excavation down to formation level C-7C-S7			A 11-Sep-21 A		11-34-22													
3.5-3424	S7 - Prepare pile head for 7C-S7		7 30-0d-21			11-30-22		1,00											
3.5-3424							178	1,00											
3.5-3425	57 - Construct pile cap C-7C-57		15 184Nov-21		11-Jul-22	06-Aug-22		4.44											
100000000	S7 - Construct Pier P-7C-57 (2 Lifts)		20 23-Dec-2	S. Santario	08-Aug-22	30-Aug-22	178	2.00											
Abutment 7D			91 05-Nov-21		11-Jun-22	30-Aug-22	158	8.00											
3.5-3428	57 - Excavation down to formation level A-7D-57		7 05-Nov-21	A 16-Nov-21 A	11-Jun-22	11-Jun-22		1.00							1	1 1			
Current Miles Actual Work Otical Rema Remaining V	aling Wark	Central Kow		ute - Kai hree Mor) (Rev25 - CSD)	Project ID: KTE-W Baseline: Layout: KTE - 3 M Filter: TASK filters Page 6 of 17	Ionths Rolling Prog		n.	Da 20-Aug 25-Aug 20-Sep 20-Sep 20-Od-3 25-Od-3 25-Od-3 20-Nor-	21 Submit C 21 Monthyl 21 Submit C 21 Monthyl 21 Submit C 21 Monthyl 21 Monthyl 21 Monthyl	Rovteo CSD Programme R Programme N28 CSD Programme R Programme N29 CSD Programme R Programme N30 CSD Programme R	bev 22 brv 23 brv 24	TYY	Approx DC DC DC DC DC DC DC DC DC

y ID	Activity Name	Org Dar Stat	Firish	Late Start	Late Finish	Total Float	TRA (Day)	her	December January 32 33 12 19 26 02 09 16 23		February 34 13 20	1 27 1 ~*	Merch 35	80 1 24
3.5-3430	57 - Prepare plie head (3 nrs) A-7D-57	13 15•Nov-21 A	21-Dec21	16-Jun-22	13-306-22	158	1.00	• 12 20 05	12 19 28 02 09 16 21	30 06	13 20	21 05	13	CU
3.5-3432	57 - Construct Abutment Base A-7D-57	19 22-Dec-21	15-Jan-22	14-Jul-22	04-Aug-22	158	3.00							
3.5-3434	S7 - Construct Abultment A-7D-S7	22 17-Jan-22	17-feb-22	05-Aug-22	30-Aug-22	158	3,00		C					
Sch_3.6 Bridge	S8 Works	29 28-Feb-22	01-Apr-22	24-0d-22	21-Jan-23	239	6.00							
S8 - Pile Caps,	Pier / Abutment	29 28-Feb-22	01-Apr-22	24-0d-22	21-Jan-23	239	6.00							
Pier 8C		29 28-Feb-22	01-Apr-22	24-04-22	25-Nov-22	193	3.00							
3.6-3634	58 - Construct Pier P-8C-58 (3 Lifts)	29 28-Feb-22	01-Apr-22	24-Oct-22	25-Nov-22	193	3.00							-
Abutment 8D		21 28-Feb-22	23-Mar-22	28-Dec-22	21-Jan-23	247	3.00							
3.6-3642	S8 - Construct Abutment A-8D-58	21 28 .Feb -22	23-Mar-22	28-Dec-22	21-Jan-23	247	3.00					-		
Sch_3.7 Bridge	No. of the second se	180 05-5ap-21 A	19-Apr-22	13-Mar-21	14-Sep-21	-170	59.00							
S9 - Piling Wo		74 165ep-21 A		13-Mar-21	14-Apr-21	-209	4.00				- ·····	1		
Piling Works -		74 16 5ep 21 A	22-Dec21	13-Mar-21	14-Apr-21	-209	4.00							
3.7-3800	59 - Bored Piles for 94 (1 nr)	36 16-5ep-21 A		13-Mar-21	13-Mar-21		4.00					\$ B		
3.7-3800	S9 - 9A Proof drilling & Pilestesting	24 25-Nov-21	22-Dec-21	13-Mar-21	13-4pr-21	-209	0.00							
		180 055ep-21 A	19-Apr-22	13-Mar-21	14-Sep-21	-170	47.00							
and the second second	Pier / Abutment					-1/0	*7.00				1			
Pier 9A		44 31-Dec-21	28-Feb-22	15-Apr-21	07-Jun-21									
3.7-3822	59 - Install sheetpile for pile cap 94	5 31-Dec-21	06-Jan-22	15-Apr-21	20-Apr-21	-214	1.00							
3.7-3824	59 - Excavation down to formation level C-9A	8 07-Jan-22	15-Jan-22	21-Apr-21	29-Apr-21	-214								
3.7-3826	59 - Prepare pile head (Inr) C-9A-59	5 17-Jan-22	21-Jan-22	30-Apr-21	06-May-21	-214			· · · · · · · · · · · · · · · · · · ·					
3.7-3828	59 - Construct pile cap C-9A-59	8 22-Jan-22	31-Jan-22	07-May-21	15-May-21	-214	1000			-		la des		
3.7-3830	S9 - Construct Pier P-9A-S9 (2 Lifts)	18 08-Feb-22	28-Feb-22	17-May-21	07-Jun-21	-214	2.00			-	1			
Pier 98		66 21-Dec-21	17-Mar-22	28-Apr-21	17-3ul-21	-196	8.00		-					
3.7-3832	59 - Install sheetpile for pile cap 98	10 21-Dec-21	04-Jan-22	28-Apr-21	10-May-21	-196	1.00							
3.7-3834	59 - Excavation down to formation level C-9B	11 05-Jan-22	17-Jan-22	11-May-21	24-May-21	-196	2.00							
3.7-3836	59 - Prepare pile head (2nrs) C-98-59	10 18-Jan-22	28-Jan-22	25-May-21	04-Jun-21	-196	1.00					1		
3.7-3838	S9 - Construct pile cap C-98-59	15 29-Jan-22	22-Fob-22	05-Jun-21	23-Jun-21	-196	2.00			-	-			
3.7-3840	S9 - Construct Pier P-98-S9 (2 Lifts)	20 23-Feb-22	17-Mar-22	24-Jun-21	17-3d-21	-196	2.00					-	-	
Pier 9C		69 05-Jan-22	01-Apr-22	27-May-21	17-Aug-21	-183	8.00							
3.7-3842	59 - Install sheetpile for pile cap 9C	10 05-Jan-22	15-Jan-22	27-May-21	07-Jun-21	-183	1.00							
3.7-3844	59 - Excavation down to formation level C-9C	11 17-Jan-22	28-Jan-22	08-Jun-21	21-3in-21	-183	1.00 1.00 2.00 2.00 3.00 1.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00 1.00 2.00							
3.7.3846	59 - Prepare pile head (2nrs) C-9C-59	13 29-Jan-22	19-Feb-22	22-Jun-21	07-34-21	-183					-			
3.7-3648	S9 - Construct pile cap C-9C-59	15 21 Feb -22	09-Mar-22	08-Jul-21	24-Jul-21	-183	2.00							
3.7-3850	S9 - Construct Pier P-9C-S9 (2 Lifts)	20 10-Mar-22	01-Apr-22	26-Jul-21	17-Aug-21	-183	2.00						4 4	
Pier 9D		168 06-Sep-21 A	31-Mar-22	14-Apr-21	14-Sep-21	-158	14.00							
3.7-3856	59 - Excavation down to formation level C-9D-A (L) 10 06-5ep-21 A	12-00-21 A	14-Apr-21	14-Apr-21		2.00							
3.7-3860	59 - Prepare pile head (Inr) C-9D-A-S9 (L)	5 13-0dt-21 A	18-00-21 A	14-Apr-21	14-Apr-21		1,00				-	1		
3.7-3865	S9 - Construct pile cap C-9D-B-S9 (R)	8 19-Oct-21 A		14-Apr-21	14-Apr-21		1.00							
3.7-3864	59 - Construct pile cap C-9D-A-59 (L)	5 25-00-21 A			14 Apr 21		1.00							
🛡 Cusent Mile			seper charge	 			1.000	Project ID: KT	E-WP25_M31	Date 20-Aug-21	Submit CSD Progra	Rovision nme Rev 22	Check	nd Appr
		Central Kowloon Rout Th			t (Mont ing Prog) Baseline: Layout: KTE -	3 Months Rolling Programme Iters: 3 Months Rolling_1, KTE - Submission.	25-Aug21 20-Sep21 25-Sep21 20-Od-21 25-Od-21 20-Nor-21	TYY TYY TYY TYY TYY	DC DC DC DC DC DC DC		

D	Activity Name	Org Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	11	<u> 32 33 34 35 3 3 3 </u>
3.7-3868A	59 - Preparation for Pier Construction - 9D (2 nos)	35	25-Nov-21	07-3an-22	18-May-21	29-Jun-21	-158	2.00	24 31 07 14 21	28 65 12 19 26 02 09 16 21 30 06 13 20 27 06 13 20
3.7-3870	S9 - Construct Pier P-9D-0-S9 (3 Lifts) (R)	29	08-Jan-22	17 -feb- 22	30-Jun-21	03-Aug-21	-158	3.00		
3.7-3868	S9 - Construct: Pier P-9D-A-S9 (2 Lifts) (L)		18-Feb-22	12-Mar-22	04-Aug-21	26-Aug-21	-158	2.00		
3.7-3876	59 - Construct, Ner Portal P-9D		14-Mar-22	31-Mar-22	27-Aug-21	14-Sep-21	-158	2.00		
						1.				
Abutment 4H/			27-Jan-22	19-Apr-22	12-May-21	24-34-21	-214	9.00		
Contractory -			27-Jan-22	11-Feb-22	12-May-21	21-May-21	-214	1.00		
3.7-3874	S9 - Excavation down to formation level A-4H/9E	13	12-Feb-22	26-Fab-22	22-May-21	05-Jun-21	-214	2.00		
3.7-3878	S9 - Prepare pile head (6nrs) C-4H/9H	14	28-Feb-22	15-Mar-22	07-Jun-21	23-Jun-21	-214	2,00		
3.7-3880	S9 - Construct Abutment Base A-4H/9E	26	16-Mar-22	19-Apr-22	24-Jun-21	24-Jul-21	-214	4.00		
S9 - Deck		31	01-Mar-22	06-Apr-22	08-Jun-21	05-Aug-21	-196	8.00		
S9 - Span 1D-9	BA (Stage 1)	28	01-Mar-22	01-Apr-22	08-Jun-21	12-36-21	-214	5.00		
3.7-3884	S9 - Span 1D-9A Falsework and formworks	13	01-Mar-22	15-Mar 22	08-Jun-21	23-Jun-21	-214	2.00		
3.7-3885	59 - Spen 1D-9A Install Beerings	6	16-Mar-22	22-Mar-22	24-Jun-21	30-Jun-21	-214	2.00		
3.7-3888	S9 - Span 1D-9A Web and Soffit	9 3	23-Mar-22	01-Apr-22	02-Jul-21	12-Jul-21	-214	1.00		
			18-Mar-22	06-Apr-22	19-Jul-21	05-Aug-21		3.00		
			18-Mar-22	06-Apr-22	19-30-21	05-Aug-21		3307		
				- Alexandra						
			5-Aug-21 A	23-Apt-22	09-Feb-21	30-Aug-21				
			1000		09-R0-21	30-Aug-21	-119	2027		
Piling Works -	Pier P-1D-B	24 0	16-Odt 21 A	22-0@21 A	20-Feb-21	20-Feb-21		0.00		
3.8-4002	S1/S9 - 1D-51/S9-2 Proof driling & Piles testing	24 0	16-Oct-21 A	22-Oct-21 A	20-Fc0-21	20-Feb-21		0.00		
Piling Works -	Pier P-1F/7A	102 1	8-5ep-21 A	21-Jan-22	09-Feb-21	21-Jun-21	-177	0.00		
3.8-4008-3	S1/S9 - Bared Piles for 1F/7A-S1/S9-1 Part 2	61 1	8-Sep-21 A	21-Dec-21	09-Feb-21	11-Mar-21	-282		_	
3.8-4010	S1/59 - 1F/7A Proof driling & Piles testing	24	22-Dec-21	21-Jan-22	24-May-21	21-Jun-21	-177	0.00		
Piling Works -	ABUT A-1G	162 2	5-Aug-21.A	22-Dec-21	07-Jul-21	30-Aug-21	-96	8.00		
3.8-4012-8	51/59 - Bored Piles for 1G-51/59-4 (Telescopic Casing Method) Part 2 (RCD	37 2	5-Aug-21 A	10-Sep-21 A	07-Jul-21	07-34-21		3.00		
3.84013	constraint)	6 2	5-5qp-21 A	02-00-21 A	30-Aug-21	30-Aug-21		2.00		
			25-Nov-21	22-Dec-21	07-Jul-21	03-Aug-21	-118			
			3-Sep-21 A	23-Apr-22	20-Feb-21	19-346-21				
	aps, Pier / Abutment									
			3-Sep-21 A	16-Feb-22	20-Reb-21	10-May-21	-227			
			222080 22003-	02-0:e-21 A		06-Mar-21		196 3.00 188 9.000 119 8.00 0.00 0.00 100 0.00 101 0.00 102 0.00 103 0.00 104 0.00 105 0.00 106 0.00 107 0.00 108 3.00 118 3.00 118 3.00 119 3.00 119 1.00 119 1.00 110 3.00 1100 1.00 1100 1.00 1100 1.00		
3.8-4030	51/59 - Construct Pier P-1D-A-51/59 (2 Lifts)	12 0	12-Oct-21 A	23 Ott 21 A	08-Mar-21	08-Mar-21		3.00		
3.8-4016	S1/S9 - Install sheetpile for pile cap 1D-B	5 1	3 Nov-21 A	18-Nov-21 A	20-Feb-21	20-Feb-21		1,00		
3.8-4018	S1/S9 - Exavetion down to formation level C-1D-B-S1/S9	8 3	25-Nov-21	03-Dec-21	20-Feb-21	01-Mar-21	-227	1.00		
3.8-4020	S1/S9 - Piepare pile head (1nr) C-ID-B-S1/S9	5	04-Dec-21	09-Dec-21	02-Mar-21	06-Mar-21	-227	1,00		
3.8-4021	51/39 - Construct pile cap C+1D-8-51/39	12	10-Dec-21	23-Dec-21	08-Mar-21	20-Mar-21	-227			
3.8-4025	51/59 - Construct Pier P-1D-8-51/59 (1 LIIt)	17 3	24-Dec-21	15-Jan-22	22-Mar-21	14-Apr-21	-227	2,00		
3.8-4032	S1/59 - Construct Portal P-1D-51/59	21	17-Jan-22	16-Reb-22	15-Apr-21	10-May-21	-227	3.00		
			17-Jan-22	23-Apr22	20-Apr-21	19-34-21	-223	10.00		
Her IE			17-941-66	23-40-22	20H01ST	13.0421	663	10.00		
			Daut		Tek E	4 /Mar 4	L 20 1	Indef	(Dav25_CSD)	Date Notice Onder Ap Project ID: KTE-WP25_M31 204-ep3/1 Submit CSD Programme Rev 22 TYY Dic Baseline: 264-ep3/1 Month/Programme Rev 28 TYY Dic
- Otical Rema	ining Work	owioon							(Rev25 - CSD)	Laverat: KTE - 3 Months Rolling Programme 20-Sep-21 Submit CSD Programme Rev 23 TVY DC
3.7-3672 59 - Instail al-extple: for pie cap. 44/9E 3.7-3674 59 - Excaudon down to formation level A- 3.7-3674 59 - Propare pie head (frm) C-44/994 3.7-3684 59 - Protect House A- 59 - Deckt 59 - Span 1D-54. (Stage 1) 3.7-3684 59 - Span 1D-54. Falsework and formwork 3.7-3684 59 - Span 1D-54. Instail Bowings 3.7-3684 59 - Span 1D-54. Instail Bowings 3.7-3684 59 - Span 1D-54. Instail Bowings 3.7-3684 59 - Span 1D-54. Make and Sofft 59 - Span 9A-58 (Stage 2) 3.7-3684 59 - Span 10-54. Make and Sofft 59 - Span 9A-58 (Stage 2) 3.7-3694 59 - Span 10-54. Make and Sofft 59 - Span 9A-58 (Stage 2) 3.7-3694 51/59 - Span 50-48 Falsework and formworks 51/59 - Pilling Works - Pr-1D-8 3.84002 3.84003 51/59 - Span 10-54. Make and Sofft 3.84003 51/59 - Span 10-54. Make and Sofft <td>NOR .</td> <td></td> <td>Inr</td> <td>ee Mor</td> <td>In Roll</td> <td>ing Prog</td> <td>grami</td> <td>ne</td> <td></td> <td>Filter: TASK filters: 3 Months Rolling, 1, KTE - Submission. 25 Sep-21 Worthly Programme M29 TYY DC 20:05:21 Submit CSD Programme Ray 24 TYY DC</td>	NOR .		Inr	ee Mor	In Roll	ing Prog	grami	ne		Filter: TASK filters: 3 Months Rolling, 1, KTE - Submission. 25 Sep-21 Worthly Programme M29 TYY DC 20:05:21 Submit CSD Programme Ray 24 TYY DC
										25-Od-21 MonthlyProgramme M00 T1Y DC

iD	Activity Name	Org Dur	Start	Finish	Laie Start	Late Finish	Total Fipat	TRA (Day	Sovember 31		December 32	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	January 33	1100000	Fab	raay 4	100	Merch 35	
3.8-4036 3.8-4038	51/59 - Install sheetpile for pile cap 1E	6	17-Jan-22	22-3an-22	20-Apr-21	26-Apr-21	-223	1.00	24 31 07 14 21	28 05	12 19	26 62	09 16	23 30	06	13 20	27 (6 13	20 20
3 8-4039	S1/S9 - Exawation down to formation level C-1E-S1/S9	14	24-Jan-22	15-Feb-22	27-Apr-21	13-May-21	-223	2.00											
3.8-4040	S1/S9 - Prepare pile head (2ne) C-1E-S1/S9		16-Feb-22	25-feb-22	14-May-21	25-May-21	-223	1.00								_			
3.8-4042			26-Feb-22	23-Mar-22			-223	3.00											
	51/59 - Construct pile cap C-1E-51/59				26-May-21	21-Jun-21							L				1.	-	
3.84044	S1/S9 - Construct Pier P-1E-S1/S9	23	244Mar-22	23-Apr-22	22-Jun-21	19-30-21	-223	3.00											
51/59 - Deck		96	16-Sep-21 A	21-Jan-22	24-May-21	19-34-21	-154	10.00				1 1					1 8		
51/59 - Span	1E-1F/1E-7A (Stage 1)	96	16-Sep-21 A	21-Jan-22	24-May-21	19-Jul-21	-154	10.00											
3.8-4079	S1/S9 - Span 1E-1P/7A steel portal - temp footing (Kal Puk Road) Night works	s 96	16-Sep-21 A	21-Jan-22	24-May-21	19-Jul-21	-154	10.00											
ich_3.9 Bridg	e CKRW Works	152	30.5cp-21 A	02-Apr-22	06-May-21	31-Jan-26	1127	43.00											
CKRW - Piling	Works	110	15-00-21 A	12-Feb-22	06-May-21	04-Nov-21	-77	8.00							1 1				
Piling Works -	- Pier P-K5-CKRW	110	15-04-21 A	12-Feb-22	06-May-21	04-Nov-21	-77	8.00									1 1		
3.9-4200	CKRW - Bored Piles for KS-CKRW-2 (1 nr)	43	15-0d-21 A	16-Nov-21 A	05-May-21	06-May-21		4.00				1 1 1							
3.9-4208	CKRW - Bored Piles for K5-CKRW-1 (1 nr)	36	25-Nov-21	08-3an-22	06-May-21	18-Jun-21	-168	4.00				1					1 1		
3.9-1204	CKRW - KS-CKRW-2 Proof drilling & Piles testing	24	25-Nov-21	22-Dec-21	07-Oct-21	04-Nov-21	-41	0.00			1								
3.9-4210	CKRW - KS-CKRW-1 Proof drilling & Piles tasting		10-Jan-22	12-Feb-22	23-Sep-21	22-04-21	-88	0.00					-						
	aps, Pier / Abutment		30-Sep-21 A	02-Apr-22	21-04-21	31-Jan-26	1127	35.00							1				
								10.00											
Abutment A-H			30-5ep-21 A		18-Nov-21	31-Jan-26	1127												
3.9-4230	CKRW - Exavation Down to Formation Level A-K1-CKRW		30-5ep-21 A			31-Jan-26		2.00											
3.94232	CKRW - Prepare pile head (4nrs) A-K1-CRRW	17	07-0d-21 A	18 Oct 21 A	31-7an-26	31-Jan-26		1,00											
3.9-1234	CKRW - Construct Abutment Base A-K1-CKRW	19	25-Oct-21 A	05-Nov-21 A	31-Jan-26	31-Jan-26		3.00											
3.9-4236	OKRW - Construct Abutment A-K1-OKRW	18	03-Mar-22	23-Mar-22	18-Nov-21	08-Dec-21	-81	4.00									-	-	-
3.9-4238	CKRW - A-K1-CKRW Install Permeter Membrane and Backfil	9	24-Mar-22	02-Apr-22	29-Apr-22	11-May-22	27	0.00											-
Pier K5-CKRV	V-1	35	14-Feb-22	25-Mar-22	23-0d-21	08-Dec-21	-83	9.00											
3.9-4240	CKRW - Prepare Pile Head for K5-CKRW-1	5	14-Feb-22	18-Feb-22	23-0d-21	28 Oct 21	-88	1.00							1.1	-			
3.9-4244	CKRW - KS-CKRW-1 Reinstatement of Slab of Kai Tak River	12	19 Feb-22	04-Mar-22	04-Nov-21	17-Nov-21	-83	6.00	····-							-	-		
3.9-4242	CKRW - Construct Plar K5-CKRW-1 (2 Lifts)	18	05-Mar-22	25-Mar-22	18-Nov-21	08-040-21	-83	2.00									-	-	_
Pier K5-CKRV	V-2	35	19-Feb-22	31-Mar-22	29-Oct-21	08-Dec-21	-88	9.00											
3.9-4252	CKRW - Prepare Pile Head for KS-CKRW-2		19-Feb-22	24.Feb-22	29-0d-21	03-Nov-21	-88	1.00								_			
3.9-4256	CKRW – K5-CKRW-2 Reinstalement of Slab of Kai Tak River		25-Feb-22	10-Mar-22	04-Nov-21	17-Nov-21	-88	6.00											
																		-	
3.9-4254	CKRW - Construct Pier IKS-CIKRW-2 (2 Lifts)		11-Mar-22	31-Mar-22	18-Nov-21	06-Dec-21	-88	2.00									10		
Abutment A-H			19-Jan-22	02-Apr-22	21-04-21	29-Dec 21	-74	7.00					<u>.</u>						
3.9-1268	OKRW - Prepare pile head (4nns) A-K4-OKRW		19-Jan-22	14-feb-22	21-04-21	09-Nov-21	-74	1,00					1 1 "	F) II	I B	1	1		
3.9-4270	CKRW - Construct Abutment Base A-K4-CKRW	19	15-Feb-22	09-Mar-22	10-Nov-21	01-Dec-21	-74	3.00								-			
3.9-4272	CKRW - Construct Abutment A-K4-CKRW	22	09-Mar-22	02-Apr-22	02-Dec-21	29-Dec-21	-74	3.00										_	
Sch_4.2 Slip R	oad Underpass S3	192	04-Aug-21 A	29-Mar-22	08-Mar-21	10-Aug-21	-186	54.00											
53 - Not relate	ed to TTA (Ramp W4-W1)	98	25-Nov-21	29-Mar-22	14-Apr-21	10-Aug-21	-185	25.00											
ELS for Under	pass (Ramp)	45	25-Nov-21	20-Jan-22	14-Apr-21	08-3un-21	-186	11.00											
4-4504	53 - Install cofferdam	18	25-Nov-21	15-Dec21	14-Apr-21	05-May-21	-186	6.00											
Central Kowloon Route - Kai Tak East (Month 30 Update) (Rev25 - CSD)						Project ID: Baseline;	25-	Aug 21 No	amit CSD Progra nihy Programme	5 M28	זייז זייז	ocled Appr DC DC							
Cital Franking Wask Central Ko		Three Month Rolling Programme										iling Programme ns Rolling_1, KTE -	Submission.	25- 20- 25-	Sep-21 Mo Od-21 Su Od-21 Mo	anit CSD Progra nthy Programm anit CSD Progra nthy Programme anit CSD Progra	s M29 mma Ray 24 s M30	111Y 111Y 111Y 111Y	DC DC DC DC DC

2	Activity Name	Org Dur	Start	Finish	Laie Start	Late Finish	Total Fibat	TRA (Day	amher 31		December 32	1	40 I 20	10487 33		w 1 4	February 34	1 100 1		Merc 35		
4-4508	53 - Excevation down to 0.5m below 1st weiing & strut; install waling & strut	11	16-Dec-21	30-Dec 21	05-May-21	18 May-21	-186	2.00	14 21	28 05	12 19	26	02 09	16	21	30 06	13	20	27	15	20	f
4-4510	S3 - Excavation down to 0.5m below 2nd walling & strut; install walling & strut	13	31-Dec-21	15-Jan-22	20-May-21	03-Jun-21	-186	2.00				-	-									
4-4512	S3 - Excavebor down to final formation level	4	17-Jan-22	20-Jan-22	04-Jun-21	08-Jun-21	-186	1.00						-					1			
RC Structures		52	21-Jan-22	29-Mar-22	09-Jun-21	10-Aug-21	-185	14:00														
Ramp W4 to 1	NE		214an-22	25-Mar 22	29-34121	10-Aug-71		14.00						1								
Bay W4		28	21-Jan-22	01-Mar-22	09-Jun-21	13-34-21	-186	4.00				1 1		1 1								
4-4546	S3-W4 - Condruct Base slab		21-Jan-22	11-Feb-22	09-Jun-21	24-Jun-21	-186	2.00														
4-4550	S3-WH - Construct Side Wall		12-Feb-22	01-Mar-22	25-Jun-21	13-30-21	-186	2.00										1 1				
Bay W3			12-Feb-22	16-Mar-22	25-Jun-21	28-30-21	-186	4.00				1										
4-4514	S3-W3 - Construct Base slat		12-Feb-22	01-Mar-22	25-Jun-21	13-306-21	-186	2.00									-					
	53-W3 - Construct Side Well				14-14-21	28-34-21	-185	2.00				1		1 1			1					
4-4516	53-W3 - Construct Side Well		02-Mar-22	16-Mar-22	10/20/02/07		1000	10.02				4										
Bay W2			02.Mar 22	29-Mar 22	15-304-21	10 Aug-21	-186	4.00														
4-4518	53-W2 - Construct Base slab		02-Mar-22	15-Mar 22	15-Jul-21	28-34-21	-185	2.00				1 1		1 1								
4-4522	S3-W2 - Construct Side Wall	11	17-Mar-22	29-Mar-22	29-Jul-21	10-Aug-21	-186	2.00						1 1						1	1.	
Bay W1		11	16-Mar-22	28-Mar-22	29-Jul-21	10-Aug-21	-185	2.00														
4-4520	S3-W1 - Construct Base slab	11	16-Mar-22	28-Mar-22	29-Jul-21	10-Aug-21	-185	2.00						1 1								۲
53 - TTA Stage	1 (Ramp W8-W5 & Box Section Bay B1)	189	04 Aug-21 A	25-Mar-22	08-Mar-21	06-Aug-21	-186	29.00														
RC Structures		145	04-Aug-21 A	26-Jan-22	08-Mar-21	06-34-21	-169	22.00											1			
Box Section -			ati Avgi (11 A	111-346-27	14-46(-21)	25306-211		15.90				1 1							1			
Bay B1 (L=2	0m) Pump Sump & FS Plant Room	114	25-Aug-21 A	11-Jan-22	14-Apr-21	29-May-21	-186	14.00						1 1								
4-4566	S3-B1 - Construct Sump Pump Base sab and sump Pump wall	18	25-Aug-21 A	30-Sep-21 A	14-Apr-21	14-Apr-21		2.00						1 1								
4-4568	S3-B1 - Construct. Sump Pump well & slab upto -1.084	23	30-Sep-21 A	29-0ct-21 A	14-Apr-21	14-Apr-21		5.00						11								
4-4569	53-B1 - Construct Base Slab (with Plant Room)	30	30-0d-21 A	03-Dec-21	14-Apr-21	22-Apr-21	-186			_												
4-4570	53-B1 - Consturct RC Wall & Sump Pump wall & slab upto +2.916	24	25-Nov-21	22-Dec-21	14-Apr-21	12-May-21	-186	4.00			_			1								
4-4574	53-BI - Constunt Top Slab	14	23-Dec-21	11-Jan-22	13-May-21	29-May-21	-186	3.00				-	-	1 1								
Colorado de Colorado	N5	1911	MARCINA	1.01-100-22	01-10-21	The second	340	1.0														
Bay W5		137	14-5ep-21 A	26-Jan-22	08-Mar-21	11-May-21	-214	4.00														
4-4544	S3-W5 - Construct Base slab			04-00-21 A	08-Mar-21	08-Mar-21	-44.4	2.00														
			0.0020400																			
4-4548	S3-W5 - Construct Side Wall (1st pour)		05-0at-21 A		08-Mar-21	07-Apr-21	-214	2.00				1		i i								
4-4549	S3-W5 - Construct Side Wall (final pour)		22-Dec-21	26-Jan-22	08-Apr-21	11-May-21	-214															
Bay W6			04 Aug-21 A		22-Mar-21	07-Apr-21	-202	2.00						1								
4-4542	S3-W6 - Construct Side Wall	26	04-Aug-21 A	07-Dec-21	22-Mar-21	07-Apr-21	-202	2.00				1 1		1								
Bay W8		16	25-0d-21 A	03-Dec-21	26-Jun-21	06-Jul-21	-126	2.00														
4-4578	S3-W8 - Construct Side Wall	16	25-0d-21 A	03-Dec-21	26-Jun-21	06-Jul-21	-126	2.00		_												
Miscellaneous		57	12-Jan-22	25-Mar-22	31-May-21	06-Aug-21	-186	7.00														
4-4575	S3 - Box Section B1 Baddilling upto GL	30	12-Jan-22	22-Feb-22	31-May-21	06-34-21	-186	2,00								-	-	-				
4-4584	53 - Ramp W54W8 Backfiling upto GL	12	23-Feb-22	08-Mar-22	07-Jul-21	20-3ui-21	-186	2.00						1				-		•;-;+	1	1ª
4-4585	53 · Temp steel deck bridge over the Ramp W7 W8	21	02-Mar-22	25-Mar 22	14-Jul-21	06-Aug-21	-186	3.00											-	-	-	
Current Miles	2244	owloo	n Rout	o - Kai '	Tak Fac	t (Mont	h 30 l	Indet	50)	Project ID: KT Baseline:	E-WP25_M31	8				Date 20-Aug-21 25-Aug-21		Ros D Programm ogramme M2	Forv 22	1		Apr DC DC
Ottar Romaning Wark Central K			entral Kowloon Route - Kai Tak East (Month 30 Update) (Rev25 - CSD) Three Month Rolling Programme											sion.		1	W W W					

	Activity Norm	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day	November 31 31 07 14 21	December January February March 32 33 34 35 28 65 12 19 26 02 09 16 23 30 06 13 20 27 16 15
ch_5A Retain	ing Walls and At-grade Road Works	274	19-May-21 A	29-Apr22	03-Mar-21	12-Apr-23	278	110.00		
Retaining Wa	ilis	273	19-May-21 A	28-Apr-22	03-Mar-21	12-Apr-23	279	100.00		
RW-S1-a		84	23-Dec-21	11-Apr-22	21-Dec-22	12-Apr-23	291	14.00		
5A-5000	RW-St-a - Excavation down to formation level +2.2/+6.0	.7	23-Dec-21	03-Jan-22	21-Dec-22	30-Dec-22	291	1,00		
5A-5002	RWS1-e - Plate Load Test and Report	14	04-Jan-22	19-Jan-22	31-Dec-22	17-Jan-23	291	2.00		
5A-5004	RW-S1-a - Construct Base Slab (Bay 1)	7	20-Jan-22	27-Jan-22	18-Jan-23	01-Feb-23	291	1.00		
5A-5006	RW/SL-# - Construct Base Slab (Bay 2)	12	28-Jan-22	17-Fab-22	03-Feb-23	16-Feb-23	292	2.00		
54-5008	RW-S1-e - Construct Wall (Bay 1)	13	28-Jan-22	18-feb-22	02-Feb-23	16-Feb-23	291	2.00		
5A-5010	RIMS1-a - Construct Wall (Bay 2)	15	19-Feb-22	08-Mar-22	17-Feb-23	06-Mar-23	291	2.00		
54-5012	RW-S1-a - Fill upto formation level	28	09-Mar-22	11-Apr-22	07-Mar-23	12-Apr-23	291	4.00		
RW-S2		165	29-Sep-21 A	10-Mar-22	19-Aug-21	13-Nov-21	-117	3.00		
5A-5096	RM/52 - Exavation down to formation level +2.7/+5.0	7	29-5ep-21 A	21-Oct 21 A	25-Aug-21	25-Aug-21		1.00		
5A-5098	RW-52 - Plate Load Test and Report (P1)	5	22-Od-21 A	23-0:0-21 A		25-Aug-21		1.00		
5A-5098A	RW-52 - Replacement of formation for Bay 7 (PMI-330)			06-Nov-21 A		19-Aug-21				
5A-5098B	RW-S2 - Plate Load Test and Report (P1) - after replacement of formation			11-Nov-21 A		25-Aug-21				
5A-5100	(PMI-330) RW-S2 - Construct Base Slab (Bay 7)			23-Nov-21 A	00010820.000	25-Aug-21		1.00		
5A-5098C	RW-S2 - Replacement of formation for Bay 6 (PMI-330)		25-Nov-21	30-Nov-21	19-Aug-21	24-Aup-21	-81			
5A-5103	RWS2 - Exception down to formation level +4,5		25-Feb-22	10-Mar-22	01-Nov-21	13-Nov-21	-91			
	PARS2 - EXavatori Coverta formación letel +1.3						-10	33.00	and and and a second	fan sjone hender se fan de se f
5A-5140A			19-May-21 A		03-Mar-21	02-Mar 22	- 10	11,00		
	RWS4 - Construct Wall (Bay 10/8) Ind. TCSS duct			02-Nov-21 A		26-Mar-21		1.00		
5A-5137C	RWS4 - Replacement of Existing Soil with Rock Hil and Sub-base (Bay 3) (PMI-ROX)			02-Sep-21 A		28-Apr-21				
5A-5154	RW-S4 - Construct Base: Slab (Boy 3);			20-Sep-21 A		28-Apr-21		1.00		
5A-5144A	RNVS4 - Construct Wall (Bay 7) ind. TCSS duct	16	25-5ep-21 A	20-0:0:21 A	26-Mar-21	26-Mar-21				
5A-5145A	RWS4 - Construct Well (Bay 5) ind. TCSS duct	19	25-Sep-21 A	29-Od:21 A	26-Mar-21	26-Mar-21				
5A-5158	RW-S4 - Construct Base Slab (Bay 2)	14	25-0d-21 A	12-Nov-21 A	31-Jan-22	31-Jan-22		1.00		
54-5156	RWVS4 - Construct Wall (Bay 3) Ind. TCSS duct.	16	25-Od-21 A	11-Nov-21 A	26-May-21	26-May-21		1.00		
5A-5158A	RWVS4 - Construct Well (Bay 2) ind. TCSS duct;	21	25-Nov-21	18-Dec-21	31-Jan-22	02-Mar-22	54	1.00		
5A-5150A	RNVS4 - Construct Wall (Bay 4) ind, TCSS duct.	47	08-Dec-21 A	17-Dec-21	03-Mar-21	25-Mar-21	-218			
5A-5168	RWS4 - Fil up to formation level	65	18-Dec-21	14-Mar-22	26-Mar-21	17-Jun-21	-218	4.00		
5A-5137B	RW54 - Replacement of Existing Soli with Rock Hil and Sub-base (Bay 6) (PMI-XOX)	3	18-Dec-21	21-Dec21	24-Apr-21	27-Apr-21	-197			
5A-5146	(PML-AAA) R0W54 - Construct Base Slab (Bay 6);	14	22-Dec-21	10-Jan-22	28-Apr-21	14May-21	-197	2.00		
SA-5146A	RW-54 - Construct Well (Bay 6) ind. TCSS duct	21	11-lan-22	10-Feb-22	15-May-21	09-Jun-21	-197			
RW-57-a		54	19-Jan-22	29-Mar-22	19-Jul-22	18-Nov-22	190	9.00		
5A-5190	RW-S7-a - Plate Load Test and Report	14	19-Jan-22	10-Feb-22	19-3ul-22	03-Aug-22	141	2.00		
5A-5192	RWS7-a - Construct Base Slab (RWS7-a1)	14	11-Feb-22	26-Feb-22	04-Aug-22	19-Aug-22	141	2.00		
	RW-S7-a - Construct Wall (RW-S7-a1)	9	28-Feb-22	09-Mar-22	01-Sep-22	10-Sep-22	151	1.00		
5A-5196				109932045	20-Oct-22	02-Nov-22	190	2.00		
5A-5196 5A-5416	RWS7-a - Construct Base Slab (RW-57-e2)	12	28-Feb-22	12-Mar-22					10 T 18 1	

D	Activity Name	Orig Dur	Start	Finish	Laie Start	Late Finish	Total Float	TRA (Day	November 31 07 12 27		December 32	32 1 // 1	January 33 09 1 16 1	03 1 06 1	February 34 56 1 13 1	40 1 20	10	10h 35	1
RW-S7		82	03-Jan-22	19-Apr-22	11-Jun-22	17-Oct-22	148	12.00	97 14 23	20 00	12 19	20 1/2	09 00	24	00 13	20 21	00	0 0	
5A-5188	RWS7 - Excavation down to formation level +3.5/+4.1	1 7	03-Jan-22	10-Jan-22	11-Jun-22	18-Jun-22	124	1.00											
54-5191	RM-S7 - Plate Load Test and Report	14	11-Feb-22	26-Feb-22	04-ALg-22	19-Aug-22	141	2.00					1						
5A-5194	RW-57 - Construct Base Slab (Bay 1)	7	28-Feb-22	07-Mar-22	20-Aug-22	27-Aug-22	141	1,00								-	-		
5A-5198	RW-S7 - Construct Base Slab (Bay 2/3)	14	08-Mar-22	23-Mar-22	29-Aug-22	14-5ep-22	141	2.00									-	_	
5A-5200	RW-57 - Construct Wall (Bay 1)		10-Mar-22	19-Mar-22	13-Sep-22	22-5ep-22	151	1.00									1		
5A-5202	RWS7 - Construct Base Slab (Bay 4/5)		24-Mar-22	09-Apr-22	15-Sap-22	30-Sep-22	141	2.00								-		1.1	10
5A-5204	RWS7 - Construct Wall (Bay 2/3)		24-Mar-22	19-Apr-22	23-Sep-22	17-0:1-22	148	3.00								1			
	Kinsz - Constitute Wai (Bay 2/3)						2.2									1		10	-
RW-57/58			11-Jan-22	28-Apr-22	11-Jul-22	21-Dec-22	196	13.00											
54-5218	RIV-S7/S8 - Excavation down to formation level +3.8/+		11-Jan-22	18-Jan-22	11-Jul-22	18-Jul-22	141	1.00		1									
5A-5220	RW-S7/S8 - Plate Load Test and Report	14	19-Jan-22	10-Feb-22	22-Sep-22	10-Oct-22	196	2.00					-						
5A-5222	RW/57/58 - Construct Base Slab (Bay 1)	7	11-Feb-22	18-Feb-22	11 Oct 22	18 Oct-22	196	1.00					1 1						
5A-5224	RW-57/S8 - Construct Base Slab (Bay 2)	7	19-Feb-22	25-Feb-22	21-Oct-22	28-Oct-22	198	1.00								-			
5A-5226	RW-S7/S8 - Construct Woll (Bay 1)	9	19-Feb-22	01-Mar-22	19-Oct-22	28-Oct-22	196	1.00							C				
54-5228	RW-S7/S8 - Construct Base Slab (Bay 3)	7	28-Feb-22	07-Mar-22	01-Nov-22	08-Nov-22	200	1.00								-			
5A-5230	RW-S7/S8 - Construct Well (Bay 2)	9	02-Mar-22	11-Mar-22	29-Od-22	08-Nov-22	196	1.00									1		
5A-5232	RW-S7/S8 - Construct Wall (Bay 3)	9	12-Mar-22	22-Mar-22	09-Nov-22	18-Nov-22	196	1.00					1 1			1	-		
5A-5234	RM-\$7/58 - Fill upto formation level	28	23-Mar-22	28-Apr-22	19-Nov-22	21-Dec-22	196	4.00										-	1
RW-SR-a			25-Jan-22	14-Apr-22	05-34-22	11 00 22	144	9.00											
5A-5260	RWS8-a - Plate Load Test and Report		25-Jan-22	16-Feb-22	05-301-22	20-30-22	124	2.00					1	-	_				
																and the second			
5A-5262	RWS8-a - Construct Base Slab (RWS8-a1)		17-Feb-22	04-Mer-22	21-3ul-22	05-Aug-22	124	2.00							6				
5A-5264	RW-S8-a - Construct Wall (RW-S8-a1)	9	05-Mar-22	15-Mer-22	10-Aug-22	19-Aug-22	127	1.00											
5A-5420	RW-58-e - Construct Base Slab (RW-58-e2)	20	05-Mar-22	28-Mar-22	30-Aug-22	22-5ep-22	144	2.00					1 E			1 8	-	-	-
5A-5422	RW-58-a - Construct Wall (RW-58-a2) (2 Lifts)	24	17-Mar-22	14-Apr-22	10-5ep-22	11-Oct-22	144	2.00										-	-
RW-58		61	11-Jan-22	29-Mar-22	20-Jun-22	30-Aug-22	124	7.00											
5A-5258	RIMS8 - Excavation down to formation level +2.6/+4.1	1 12	11-Jan-22	24-Jan-22	20-Jun-22	04-3al-22	124	1.00						6					
5A-5261	RW458 - Plate Load Test and Report	14	17-Feb-22	04-Mar-22	21-Jul-22	05-Aug-22	124	2.00											
SA-5266	RW-S8 - Construct Base Slab (Bay 1)	7	05-Mar-22	12-Mar-22	06-Aug-22	13-Aug-22	124	1.00											
5A-5268	RW-S8 - Construct Base Slab (Bay 2/3)	14	14-Mar-22	29-Mar-22	15-Aug-22	30-Aug-22	124	2.00					1 1				-	_	
5A-5270	R0M-S8 - Construct Wall (Bay 1)	9	16-Mar-22	25-Mar-22	20-Aug-22	30-Aug-22	127	1.00											
RW-S9			295ep-21 A		09-Apr-21	14-Aug-21	-149	22.00		diseast may									
KW-59			2/50/21 A		0940r21	reaged	245	22.00								1			
	2000 0 1 10 01 D 2					00.4	1910									-			
54-5296	RW-S9 - Construct Base Slab (Bay 7)			12-0::-21 A	09-Apr-21	09-Apr-21		2.00											
54-5300	RW-S9 - Construct Base Slab (Bay 5)		25-0d-21 A		09-4p+21	21-Apr-21	-190	2.00											
54-5298	RW-S9 - Construct Base Slab (Bay 6)	2	25-0d-21 A	20-Nov-21 A	09-Apr-21	09-Apr-21		2.00											
54-5382	RW-59 - Construct Base Slab (Bay 4)	9	08-Dec-21	17-Dec-21	22-Apr-21	03-May-21	-190	2.00		-									
54-5304	FOW 59 - Construct Wall (Bay 4)	14	18-Dec-21	06-Jan-22	23-Jun-21	09-Jul-21	-149	2.00				-							
54-5306	RW 59 - Construct Base Slab (Bay 3)	9	18-Dec 21	30-Dec 21	04-May-21	13-May-21	-190	2.00			-	-						_	l.
Current Mile		Central Kowloo	n Rout	o - Kai 1	Tak Eac	t (Mont	h 30 I	Indet	- CSD)	Project ID: K Baseline:	TE-WP25_M31			Date 20-Aug-21 25-Aug-21		Rovision Programme Rev 2 partime M28	2	Chooled Triy	App DC DC
- Otical Rem - Remaining V	ahing Work					ng Prog			- 000)	Layout: KTE	- 3 Months Rolling P filters: 3 Months Rolli		mission.	20-Sep21 25-Sep21 20-Od-21 25-Od-21 20-Nor-21	Submit CSD Monthly Prog Submit CSD Monthly Prog	Programme Rev 2 ramme M29 Programme Rev 2	4	TYY TYY TYY TYY TYY	DC DC DC DC DC DC

γiD	Activity Name	Org Dur	Start	Firish	Late Start	Late Finish	Total Ficat	TRA (Day	ovemher 31			December 32			January 33			Fabra 34	ay		10	irah 15	
54-5318	RWS9 - HI upto formation level	28	31-Dec-21	09-Feb-22	14-May-21	17-Jun-21	-190	4.00	14 23	28	05	12 1	9 26	62	09 1	6 23	30	06	3 20	27	06	13 20	2
54-5308	RW-S9 - Construct Base Slab (Bay 2)	11	31-Dec-21	13-lan-22	15-10+21	27-Jul-21	-140	2.00					1	_	_								
54-5310	RVMS9 - Construct Well (Bay 3)		07-Jan-22	24-Jan-22	10-Jul-21	27-Jul-21	-149	2.00					1	1	_	1							
545314	RW-59 - Construct Wall (Bay 2)		25-Jan-22	18-Feb-22	28-14-21	14-Aug-21	-149	2.00															
Road Works	rear so a contactor rear (say 2)		25-Aug-21 A		16-Jun-21	24-Dec-21	-45	10.00							1		1						
			were the on												1					Ť i			
	or Kai Fuk Road		25-Nov-21	10-Dec21	22-3.4-21	06-Aug-21	-105	2.00		-	-				1								
5A-5502	KFRD - Temp relocate existing Traffic Gantry (WB) Ksr238	20	25-Nov-21	10-Dec21	22-Jul-21	06-Aug-21	-105	2.00												-			
Pre-stage at H	Kal Fuk Road for KFR TTA Stage 1, 1.1, 1.2 & 1.3	44	19-Jan-22	17-Mar-22	16-Jun-21	06-Aug-21	-179	6.00															
5A-5523	KFR(Pre-stage for 1.1) - Road Pavement for KFR TTA Stage 1.1 (ind.baddfiling)	-24	19-Jan-22	22-Feb-22	16-Jun-21	14-Jul-21	-179	2.00		8					1		1 1						
5A-55Z3A	KFR(Pre-stage for L.2) - Road works for contra flow section	14	23-Feb-22	10-Mar-22	15-Jul-21	30-Jul-21	-179	2.00											-	-	-		
5A-5523B	KFR(Pre-stage for 1.3) - Leveling of existing road	6	11-Mar-22	17-Mar-22	31-Jul-21	06-Aug-21	-179	2.00													-	•	
At-grade Slip	Road 5004	36	15 Mar 22	29-Apr 22	18 Jun-21	30-Jul-21	-218	2.00					1		1								
5A-5510A	BIM - S004 - Road and Drainage works / Utilities / TCSS duct laying (before	36	15-Mar-22	29-Apr-22	18-Jun-21	30-34-21	-218	2.00						1000	- 40					0.000			-
Kai Fuk Road	KFR TTA Stage 2) (EB) - Maintain 3 traffic lanes until CKR commissioning (PMI 253	180	25-Aug-21 A	06-Apr-22	23-Aug-21	24-Dec-21	-78	0.00							1								
5A-5844	KFR(EB) - 3 lanes - Tree feling propose; LCSD checking and approval	180	25-Aug-21 A	06-Apr-22	23-Aug-21	24-Dec-21	-78				_		_	-	_	-	-	1	_		_	-	
SCH 68 Re-m	instruction of Existing Box Culvert	30	25-Nov-21	31-Dec-21	05-May-22	10-Jun-22	124	0.00							1					1			
a second second second	-construction Works		25-Nov-21	31-Dec21	05-May-22	10-Jun-22	124	0.00							1					1 1			
			25-Nov-21	31-Dec-21		10-Jun-22	124	0.00		4				1						1			
BC- Reinstate					05-May-22			0.00			_									1			
6B-5782	BC - Reinstate hard paying and related UU		25-Nov-21	08-Dec21	05-May-22		127			1					1								
6B-5784	BC - Reinstate planter wall in DSD compound	12	09-Dec-21	22-Dec21	20-May-22	02-Jun-22	127				-												
6B-5786	BC - Transplant 5 nos of tree in DSD compound	3	09-Dec-21	11-Dec-21	31-May-22	02-3un-22	136																
6B-5788	BC - Reinstate fending in DSD compound	6	23-Dec-21	31-Dec-21	04-Jun-22	10-Jun-22	127						-	1									
6B-5790	BC - Complete reconstruction of Box Culvert	0		31-Dec 21		10-Jun-22	124																
Section 8 - V	entilation and E&M adit and Ring Road Underpass	324	25Maii21 A	05/May-22	119Aug-21	13:4(#22)	00	(43.00															
Sch_6A Ventila	ation and E&M Adit Works	308	25-Mar-21 A	12-Apr-22	11-Aug-21	19-Feb-22	-43	14.00															
Area Part 1D1	, 103, 181 & 182	308	25-Mar-21 A	12-Apr-22	11-Aug-21	19-Pob-22	-43	14.00							1								
VA - RC Struct	tures	141	25-Sep-21 A	21-Mar-22	11-Aug-21	27-Nov-21	-88	2.00															
VA Sections	- Bay 85 (14.5m)		Li-House A	10510-002	11-015-01	1.56211		0.00															
64-6571	VA-B5 - Baddilling to sork L3/L4/L5			14-Jan-22	11-Aug-21	28-Sep-21	-88			_	_		1										
	-Bay B6 (~14m)	1	153022																				
64-6577				21 10-22	20.0-21	27.84.22	-88	100									1 1						
11101002/	VA-86 - Baddiling to strike L3/L4/L5	50	15-Jan-22	21-Mar 22	59-94D-51	27-Nov-21	-68								1								
													1										
64-6602	VA-B7 - Construct RC Walls & Top Stab				23-Nov-21			2.00							1								
VA - Miscellar			25-Mar-21 A		28-Od-21	19-Feb-22	-43	12.00															
VA - Stage 1	Hiscellaneous works																						
64-6604	VA - Movement Joint / Waterproofing, Stage 1	32	25-Mar-21 A	29-Nov-21	28-0d-21	01-Nov-21	-24	2.00		-					しま								
64-6606	$\ensuremath{VA}\xspace$ - Baddfling up to GL with additional concrete bik and wall, Stage 1	16	254kw-21	13-Dec21	28-Oct-21	15-Nov-21	-24	4.00			-												
64-6607	VA - Haul Road preparation & diversion, stage 1 (end May 2021)	6	14/Dec 21	20-Dec21	16-Nov-21	22-Nov-21	-24					-		1						1			
Current Mite	-									-		Super to					Da			Rovision		Chocked	
Actual Work	Central K	owloo	n Rout	e - Kai	Tak Eas	t (Mont	h 30	Updat	SD)	Base	ine;	E-WP25_M3					20-Aug-3 26-Aug-3	21 Subri 21 Nont	it CSD Program			TYY TYY	DC DC
Otical Rem	sahing Work					ing Prop				Layo	t: KTE - :	3 Months R					20-Sep3 25-Sep3	21 Subr	il CSD Program	me Rev 23		TYY	DC
Hernaning '	VICES					3.10				Filter	TASK fill	ters: 3 Mont	hs Roling_	1, KTE - SL	bmission.		20-0d-2 25-0d-2	1 Subr	# CSD Progra	rame Ray 24		TWY	DC
										Pane	13 of 17						25-0d-2 20-Nor-3		IV Programme # CSD Program			TITY	DC

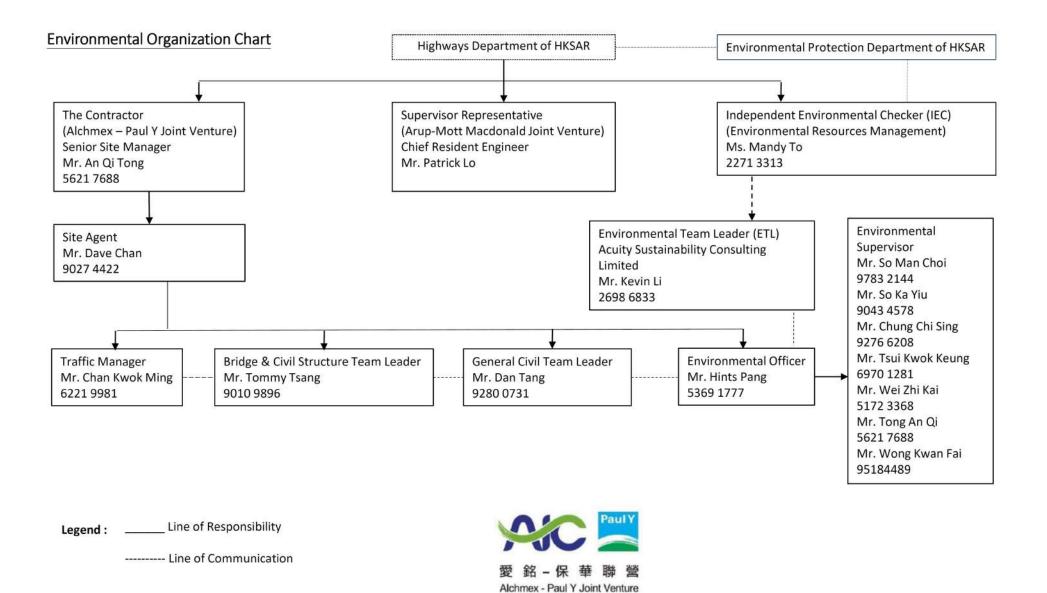
ib	Activity Name	Org Dur	Start	Firish	Late Start	Late Finish	Total Float	TRA (Day	r December January February 32 33 33 34 45 12 19 26 62 09 16 23 30 66 13 20 27 06	Merch 35 13 20
VA - Stage 3	Miscellaneous works	.(68	15/00/22	1240/22	23465-21	19466-12	્નાર	6.00		
64-6608	VA - Movement Joint / Wateproofing, Stage 3	50	15-Jan-22	21-Mar-22	23-Nov-21	22-Jan-22	-43	2.00		
64-6610	VA - Backfiling up to GL, Stage 3	56	29-Jan-22	12-Apr-22	07-Dec-21	19-Feb-22	-43	4.00		
Sch_4.1 Ring	Road Underpass	156	20-04-21 A	05-May-22	16-Nov-21	13 Apr-22	-30	29.00		
RR - Part 1D1	, 1D2, 1D3, 1D4, 1B1 & 1B2	156	20-Oct-21 A	05-May-22	16-Nov-21	13-Apr-22	-30	29.00		
RR - ELS Wor	ks	44	25-Nov-21	18-Jan-22	24-Nov-21	06-Apr-22	60	9.00		
AR - ELS So			34w1)	15.148.52	29480-21			9.00		
4-6732	RR - Excavation Down to 1st waling & Strut; Install waling & Strut; 1818/182		25-Nov-21	14-Dec-21	24-Hov-21	13-Dec-21	-1	4.00		
4-6734	RR - Excavation Down to Final Formation Level, 1818:182					10-Jan-22		4.00		
			15-Dec-21	11-Jan-22	14-Dec-21		-1			
4-6736	RR - Excavation Down to Formation Level (Baddhling) (RR), 1818182 (Open cut)		12-Jan-22	18-Jan-22	30-Mar-22	06-Apr-22	60	1.00		
	tions, Pump Sump & FS Plant Room	156	20-0d-21 A	05-May-22	16-Nov-21	13-Apr-22	-30	20.00		
4-6745	RR-R3 - Construct External Wall	23	20-Od-21 A	28-Dec-21	16-Feb-22	18-Mar-22	62	2.00		
4-6748	RR-R3 - Construct Top Slab	21	31-Dec-21	25-Jan-22	19-Mar-22	13-Apr-22	60	2.00		
FOR - Bay 84	(5011 CH0+146 to 0+161)	77	20+04-71 A	255an(23	2450027	29-Mar 22		* 00	a far a far an	
4-6752	RR-R4 - Construct External Wall	24	20-0d-21 A	28-Dec-21	24-Jan-22	02-Mar-22	48	2.00		
4-6754	RR-R4 - Construct Top Slab	23	29-Dec-21	25-Jan-22	03-Mar-22	29-Mar-22	48	2.00		
RR - Bay US	(S011 CH0+151 to 0+180)		10-04-21 A	25-10-22	24-58-22	20-164-22	-10	4.00		
4-6764	RR-R5 - Construct External Wall			28-Dec 21	24-Jan-22	02-Mar-22	48	2.00		
4-6766	RR45 - Construct Top Slab		29-Dec 21			29-Mar-22	48	2.00		
1055.54		22220	port openia.	25-Jan-22	03-Mar-22	294968722	18	2.00		
	(\$011 CH0+1913 to 0+211.5) (at-grade) (RU1)									
4-6775	RR-RU1 - Construct Side well / Internal well			07-Dec-21	16-Nov-21	27-Nov-21	-8			
4-6778	RR-RUL - Construct RC Walls (F5 plantboom L 8 2)	40	08-Dec-21 A	26-Jan-22 A	21-Mar-22	21-Mar-22		4.00		
4-6776	RR-RU1 - Construct Intermediate Slab, RC Walls & Slabs up to -0.825	34	22-Mai-22	05-May-22	29-Nov-21	10-Jan-22	-88	4.00		-
Section 10 -	Footbridge, E&M Installation and Miscellaneous Wc	145	22 Aug-21 A	18580-22	22-Apr21	15-\im21	-179	9.00		
Sch_7 Abando	on Exisitng Subway KS-20	146	23 Aug 21 A	18-Jan-22	22-Apr-21	15-Jun-21	-179	9.00		
KS-20 - Dem	olistion / Filling Works	146	23-Aug-21 A	18-lan-22	22-Apr-21	15-Jun-21	-179	9.00		
Kai Fuk Road	(WB)	146	23-Aug-21 A	18-Jan-22	22-Apr-21	15-Jun-21	-179	9.00		
7-7328	KS20 - Excavate down to subway roof level	18	23-Aug-21 A	30-Nov-21	04-May-21	08-May-21	-170	3.00		
7-7330	KS20 - Demoksh eng subway & ramp (WB)		75-1kov-21	29-Dec 21	22-Apr-21	26-May-21	-179	4.00		
7-7332	KS20 - General fill to formation level / Utilities diversion / Lawing inside subway		30-Dec 21	18-Jan-22	27-May-21	15-Jun-21	-179	2.00		
		1.28	10.000	10.389.52	2/110/21	13-36/781	-1/3	2.00		
	Structure of Bridge CKRE									
	ge CKRE Works		10-Sep-21 A		10-Mar-21	21-34-21	-208	33.00		
CKRE - Piling	Works	105	15-Od-21 A	31-Jan-22	10-Mar-21	25-Jun-21	-181	8.00		
Piling Works	- Pier P-K5-CKRE	105	15-04-21 A	31-Jan-22	15-Mar-21	25-Jun-21	-181	8.00		
3.10-7514	CKRE - Bored Piles for K5-CKRE-2 (1 nr)	24	15-0d-21 A	10-Nov-21 A	15-Mar-21	15-Mar-21		4.00		
3.10-7506	CKRE - Borad Piles for K5-CKRE-1 (1 nr)	36	194Nov-21 A	03-Jan-22	15-Mar-21	23-Apr-21	-208	4.00		
3.10-7518	CKRE - KS-CKRE-2 Proof driling & Piles testing	24	25+Nov-21	22-Dec 21	28-May-21	25-Jun-21	-150	0.00		
					11.				Date Novitori	Choded App
Current Mi		wloc	n Rout	e - Kal	Tak Fac	t (Mont	h 30 I	Indet	Project ID: KTE-WP25_M31 20-Aug-21 Submit CSD Programme Rev 22	TYY DC TYY DC
Otical Ren	nahing Work	100				ing Pro			Layout: KTE - 3 Months Rolling Programme 20-Sep 21 Submit CSD Programme Rev 23	TYY DC
Remaining	Work			ee mor	ALL NOI	ing Fro	grann	ne	Filter: TASK filters: 3 Months Rolling_1, KTE - Submission. 25-Sep-21 Month/ Programme Ray 24 20-0d-21 Submit CSD Programme Ray 24	TYY DC TYY DC
									25-Oct-21 Month/Programme X00 Page 14 of 17 20-Nor-21 Submit CSD Programme Kmr 25	TYY DC TYY DC

ib	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Da	14 25 1	28 05	12 10	1 26 1 3	02 09	33 1 16 2	3 30	7-86118 34 06 1	2	27	35 06 13	1 20	13
3.10-7510	CKRE - KS-CKRE-1 Proof driling & Piles testing	24	04-Jan-22	31-Jan-22	24-Apr-21	24-May-21	-208	0.0		28 05	12. 19	10	va 09	10 2		00 1	20		00 10		-
Piling Works -	ABUT A-K4-CKRE	24	25-1kw-21	22-Dec-21	10-Mar-21	10-Apr-21	-212	0.0													
3.10-7526	CKRE - ABUT A-K4-CKRE Proof drilling & Piles testing	24	25-Nov-21	22-Dec-21	10-Mar-21	10-Apr-21	-212	0.0		_	_										
CKRE - Pile Ca	ps, Pier / Abutment	131 1	0-Sep-21 A	22-Mar-22	12-Apr-21	03-34-21	-212	21.0													
Abutment A-H	1-CKRE	123 1	0-Sep-21 A	12-Mar-22	26-May-21	29-Jun-21	-207	9.0													
3.10-7532	CKRE - Prepare pile head (4nis) A-K1-OKRE			04-Oct-21 A		26-May-21		4.0				1		1							
3.10-7534	CKRE - Construct Abutment Base A-KL-CKRE		05-Oct-21 A			26-May-21		1.0				4		k							-
3.10-7536	CKRE - Construct Abutment A-K1-CKRE		08-Feb-22	02-Mar-22	26-May-21	18-Jun-21	-207	4.0								-	14 4				
3.10-7538	OKRE - AKI-OKRE Install Permeate Membrane and Baddill		03-Mar-22	12-Mar-22	100000000		-207	0.0													
					19-Jun-21	29-Jun-21															
Pier K5-CKRE			08-Feb-22	08-Mar-22	25-May-21	29-Jun-21	-203	4.0													
3.10-7540	CKRE - Prepare Pile Head for KS-CKRE-1	5	08-Feb-22	12-Feb-22	25-May-21	29-May-21	-208	1.0								-					
3.10-7544	CKRE - K5-CKRE-1 Reinstatement of Slab of Kai Tak River; remaining works	2	14-Feb-22	15-Feb-22	05-Jun-21	07-Jun-21	-203	1.0				1									
3.10-7542	CKRE - Construct Pier KS-CKRE-1 (2 Lifts)	18	16-Feb-22	08-Mar-22	08-Jun-21	29-Jun-21	-203	2.0													
Pier K5-CKRE	-2	25	14Feb-22	14-Mar-22	31-May-21	29-Jun-21	-208	4.0													
3.10-7552	CKRE - Prepare Pile Head for KS-CKRE-2	5	14-Feb-22	18-Feb-22	31-May-21	04-Jun-21	-208	1.0								-					
3.10-7556	CKRE - KS-CKRE-2 Reinstatement of Slab of Kai Tak River; remaining works	2	19-Feb-22	21-Feb-22	05-Jun-21	07-Jun-21	-208	1.0									-				
3.10-7554	CKRE - Construct Pier KS-CKRE-2 (2 Lifts)	18	22-Feb-22	14-Mar-22	08-Jun-21	29-Jun-21	-208	2.0								e de la composición de	-		-		
Abutment A-H	4-CKRE	68	23-Dec-21	22-Mar-22	12-Apr-21	03-346-21	-212	4.0													
3.10-7568	CKRE - Prepare pile head (4nrs) A-K4-CKRE	20	23-Dec 21	18-Jan-22	12-Apr-21	05-May-21	-212	0.0				4						8			
3.10-7520	CKRE - Construct Abutment Base A K4-OKRE		19-Jan-22	14-Feb-22	06-May-21	26-May-21	-212	1.0				1		1	1	-					
3.10-7572	CKRE - Construct Abutment A-K4-CKRE		15-Feb-22	11-Mar-22	27-May-21	22-Jun-21	-212	3.0								- 1					
													_				5			-	
3.10-7574	CKRE - A-K4-CKRE Install Permeate Membrane and Backfill		12-Mar-22	22-Mer-22	23-Jun-21	03-Jul-21	-212	0.0											_		
CKRE - Deck		18	15-Mar-22	04-Apr-22	30-Jun-21	21-36-21	-208	4.0													
CKRE- Span K	1-CKRE - K5-CKRE	18	15-Mar-22	04-Apr-22	30-Jun-21	21-34-21	-208	4.0													
3.10-7578	CKRE - Span K1-KS Falsework and formwork	18	15-Mar-22	04-Apr-22	30-Jun-21	21-34-21	-208	4.0												-	-
Section 12 - I	Underpass S21	100 3	T-Aug-1 A	05-34622	144pr/21	01-000-21	-24	30.0													
Sch_4.3 Slip R	ood Underpass S21	109 3	1-440-21 A	05-3an-22	14-4p+21	04-Dec-21	-24	30.0													
521 - RC Stru	cture	93 3	81-Aug-21 A	09-Dec-21	14-Apr-21	20-Nov-21	-15	10.0													
S21 - U-Troug	h Sections - South (CH000 to CH143.981)	12	25-Nov-21	08-Dec-21	08-Nov-21	20-Nov-21	-15	0.0													
	-10 - At-Grade Slab (CH009.176 to 000)		54843	mi-fam-11	The set of	20-Nov21		0.0													
4-7812	521-62-10 - Construct At Grade slab	12	254kov-21	08-Dec21	08-Nov-21	20-Nov-21	-15	0.0		-											
S71 - Box Sec	tions (CH143.981 to CH205.700)				09-Nov-21		-10	7.0													
	-2 - Rue Section (CH159.5 to 175)				0944-091		100														
										i i											
4-77344	S21-B1-2 resize of pipe size in base slab; ind procurement & delivery (PMI-313)				09-Nov-21								The second second								
4-7734B	521-B1-2 Construct Base Slab (final pour)			02-00-21 A		09-Nov-21															
4-7736	521-B1-2 Construct External Walls (1st pour)	- 855	1957/0522	04-Nov-21 A	100000000	09-Nov-21		2.0				1									
4-7738	S21-81-2 Construct External Walls (final pour) & Top Slab			30-Nov-21	09-Nov-21	13-Nov-21	-14	2.0													
521 - Bay 81	-3 - Hox Section (CH175 to 190.5)		H Sapril) A	10 ten 21 A	19.0mr-21	19-hane 21		2.0													
Current Mit	-								10	Project ID: KT	T MEDIC 1144	5			Dat			/sion	- 1	Chocked	
Actual Work	Central K	owloor	Rout	e - Kai '	Tak Eas	st (Mont	h 30 l	Jpda)	Baseline;					20-409-2 25-409-2	1 North	CSD Programme Programme Ma	88		YY 1	DC DC
Critical Rem	ahing Work					ing Pro			/			ling Programm			20-Sep2 25-Sep2	H. Submit	CSD Programme Programme MC		1		DC DC
Hernand,										Filter: TASK fi	iters: 3 Month	s Roling_1, KT	E - Submiss	ion.	20-0d-2 25-0d-2	1 Submit	CSD Programme Programme MS	e Ray 24		YY I	DC
										Page 15 of 17					25-06-2 20-Nor-2	worth	CSD Programme MC	N			DC DC

D	Activity Name	Org Dur Start	Firish	Late Start	Late Finish	Total Float	TRA (Day	November 31	1 4 1 4	Secondar January Secondar 33	February 34		35
4-7750	S21-B1-3 Construct. External Walls (Final pour) a& Top Slab	44 245@-21 A	19-Nov-21 A	19-Nov-21	19-Nov-21		2.0	07 14 21	28 05	12 19 26 02 09 16	23 36 06 13 20	27 06	13 20 27
21 - Bay R1	-4 - Box Section (CH190.5 to 205.7)	41 01-00721 A	interest A	11085-21	19 how 21		1.0						
4-7762	S21-B1-4 Construct External Walls (Final pour) Top Slab	44 05-Od-21 A	19-Nov-21 A	19-Nov-21	19-Nov-21		1.0						
S21 - U-Troug	h Sections - North (CH205.700 to CH354.957)	88 01-Sep-21 A	08-Dec-21	14-Apr-21	20-Nov-21	-15	3.0						
	-1 - U-Trough Type III (CH205.7 to 223)	75 01 Geo-71 A		1440-001	20-mas211								
4-7823	S21-63-1 - Construct Side Walls (1st pour)	30 01-5ep-21 A	28-5m-21 A	14-Apr-21	14-Apr-21		1100	0 I #					
4-7824	S21-83-1 - Construct Side Walls (final pour)	36 12-Od-21 A		11-Nov-21	20-Nov-21	-12	1.0						
STR BUILT	-9 - At Grade Slab Part 3E (CH 321, 11 to 354,057) Part 3E	12 20010051	(19)0=21	(1)((1))(2)	House and			9					
4-7868	S21-83-9 - Construct At Grade slab	12 25-Nov-21	09-Dec-21	08-Nov-21	20-Nov-21	-15	2.0		in the second second				
		60 25-00-21 A		28-0d-21	04-Dec-21	-24	20.0						
	neous Works					222	07.515						
10 10 mil	roofing and Backfilling Works	60 25-0d-21 A		28-Od-21	04-Dec-21	-24	-20.0						
	ctions (CH141981 to CH295.700)	54 25062LA		3604.5	00000000	1111	12.0						
4-7870	521 - Waterproofing / Movement Joint / Masonry Wal (Box Section)	48 25-Od-21 A		28-Oct-21	20-Nov-21	-24	6.0	S. of Luce X					
4-7872	S21 - Baddilling up to GL. (Box Section)	48 01-Nov-21 A	28-Dec-21	04-Nov-21	04-Dec-21	-18	6.0	0-0-13					
4-7946	S21 - Weberproofing / Movement Joint / Mesonry Weil (U-Trough Section - North)	36 01-Nov-21 A	11-Dec-21	11-Nov-21	27-Nov-21	-12	4.04	1. 1. 1.					
4-7944	S21 - Badvilling up to GL (U-Trough Section - North)	36 08-Nov-21 A	18-Dec-21	11-Nov-21	04-Dec-21	-12	4.0						
SZL - Final C	ompletion Works	12 20406-21	05-100-22	224495-24	on-pecal.	-24	0.0						
4-7814	S21 - Final Completion Works	12 20-Dec-21	05-Jan-22	22-Nov-21	04-Dec-21	-24	0.0						
4-7816	S21 - Completion of Structure of Underpase S21	0	05-Jan-22		04-Dec-21	-24	0.0						
ection 17 -	Sleeve pipes for District Cooling System (Subject to	261 25 May 21 A	116Apts22	04-Mar 21	28/Gep-21	-1567	061.0						
ich_10 Sleeve	pipes for DCS (Kai Tak River West)	161 25-May-21 A	03-Dec-21	15-Mar-21	28-Sep-21	-56	11.0						
DCS-West Se	ction A (39m)	161 25-May-21 A	03-Dec 21	15-Mar-21	10-May-21	-172	7.0						
10-8476	DCS(W)_A - Baddiling works for DCS pipes	40 25-May-21 A	29-00-21 A	15-Mar-21	15-Mar-21		4.0	[
10-8478	DCS(W)_A - Reinstatement (Pavement / Fending / etc.)	8 25-Nov-21	03-Dec-21	30-Apr-21	10-May-21	-172	3.0						
DCS-West So	ction B (49m)	26 05-Jul-21 A	29-00-21 A	11-May-21	11-May-21		2.0						
10-8492	DCS(W)_B - Baddfiling works for DCS pipes	26 05-Jul-21 A			11-May-21		2.0						
	ction C (25m)	26 25-Aug-21 A			28-Sep-21		2.0						
10-8506	DCS(W). C -Baddfilling works for DCS pipes	26 25-Aug-21 A			28-Sep-21		2.0	here have a	(and the second	served and a new procedure of the served of	ination from from from the	and and a	nafaar Pa
	pipes for DCS (Kai Tak River East)	179 26-Aug-21 A		04-Mar21	23-5ep-21	-159	30.0						
	tion 1 (approx 37.5m)	147 25-0d-21 A		04-Mar-21	03-34-21	-217	36.0						
10-8516	DCS(E) - Dewatering system installation (TBA subject to design)	18 25-Od-21 A		100.000.000.000.0	04-Mar-21		2.0						
10-8518	DCS(E) - Excavation clown to formation level (Part A for Pile caps) ind wailing is strut:	30 02-Nov-21 A		04-Mar-21	15-Mar-21	-217	3.0						
10-8520	DCS(E) - Excavation down to formation level (Part B for DCS) ind wailing & shut	15 07-Dec-21	23-Dec-21	16-Mar-21	01-Apr-21	-217	3.0		-				
10-8522	DCS(E) - Install sleeve pipes 3x1800 ID (L=37.5m)	24 24-Dec-21	24-Jan-22	07-Apr-21	05-May-21	-217	6.0						
10-8524	DCS(E) - Baddfiling works for DCS pipes	48 25-Jan-22	28-Mar-22	06-Məy-21	03-Jul-21	-217	2.0				-		_
DCS-East Por	tion 2 (approx 37.5m)	179 25-Aug-21 A	13-Apr-22	26-Jun-21	23-Sep-21	-159	34.0						
10-8528A	$DCS(E)^\circ$ additional pre-boring to overcome unchanted u/g obstruction ($EW(143)$; assumed 18 days	26 26 Aug 21 A	25-5ep-21.A	26-Jun-21	26-Jun-21								
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Adual Wor	whing Work Central K	owloon Rout Th			t (Mont ing Prog			5 - CSD)		3 Months Rolling Programme iters: 3 Months Rolling_1, KTE - Submission.	25-Aug 21 Month/Programme M 20-Sep 21 Solumit CSD Programme M 25-Sep 21 Month/Programme M 20-Oct-21 Solumit CSD Programme M	28 ne Rev 23 29	TYY DC TYY DC TYY DC TYY DC TYY DC TYY DC
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	10.0024	Particles - Young downer to it we want		0.000		35. hun 31	36.5 - 31	Float	3.00	24 31 07 12	21	28 05	12 1	26 0	2 09	16 23	30 06	34	20 27	06 13	20	27 3
	10-8528		a delare te dadina'		02-Om-21 /		26-3un-21		2.00													
	10-8530				-21 A 01-Nov-21		26-Jun-21		2.00													
	10-8532				v-21 A 13-Dec-21		15-34-21	-126	2.00													
	10-8534		17.5m)	19 25-Ja			06-Aug-21	-159	6.00									1 1				
	10-8536	DCS(E) - Baddiling works for DCS pipes		40 23-Fe	6-22 11-Apr-22	07-Aug-21	23-5ep-21	-159	2.00			1										
	Ad	rer Mistre	Central Kov	wloon R	oute - Kai	Tak Eas	st (Montl	n 30 U	lpdate	e) (Rev25 - CSD)		Baseline:	<pre>KTE-WP25_M3</pre>				25-Aug-21	North/Prost	Rontean Troppermove David		Checked Ap WY DC	
	01 	Ital Remaining Work maining Work			Three Mo	nth Rolli	ing Prog	gramm	ne	, ,	мл.	Layout: KTE	filters: 3 Mont	lling Programme vs Rolling_1, KTI	e E - Submissio	n.	20.Sep21 25.Sep21 20.Od-21 25.Od-21 20.Nor-21	Submit CSD F Monthly Progr Submit CSD F Monthly Progr	hogramme Rev 23 amme M29 hogramme Rav 24		MY DC MY DC	

Appendix C Project Organization Chart



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	1
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

EVENT	ACTION			
	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

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 Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/or standards to be achieved	Implementation Status
			Constru	ction Dust Impact				
\$4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact To meet HKAQO and TM-EIA criteria 	 Implemented and rectified after observation
\$4.3.10	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 and rectified after observation

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 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 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 						

•							
	 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 	Monitoring of dust impact	Contractor	Selected rep. dust monitoring	Construction stage	• TM-EIA	• Implemented
		Construct	tion Noise (Airborn	station e)			

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N1	 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
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented

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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
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	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

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\$6.9.1.1		 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 and rectified after observation

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		 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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S6.9.1.3	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
S6.9.1.5	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

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		 recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. 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 						

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		removed as necessary by installing the petrol interceptor.						
\$6.9.1.6	W6	 <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)			
S7.4.1	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 	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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		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.						
\$7.5.1	WM2	 Construction and Demolition Material 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 		Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	• Implemented

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		 purpose, where possible; 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. 	disposal					
\$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 	generation and recycle the C&D materials as far as practicable so as to reduce the	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	• Implemented

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		used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						
\$7.5.1	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	РВН4	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 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. 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.						
\$7.5.1	WM6	 <u>Chemical Waste</u> <u>Chemical waste</u> 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; 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; 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 	Minimize production of the general refuse and avoid odour, pest and litter impacts	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	РВН4	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

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		LocationsTesting requirementAcceptance CriteriaPBH4PCBsRBRGs Park)• If the results of analysis below the RBRGs 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	A Remediation clean-up shat endorsement construction, construction,	all be prepared and it prior to the co /development wor	demonstrate adequate d submitted to EPD for promencement of any ks within the sites. No ks shall be carried out						• N/A

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S9.18	H8	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	-	• N/A
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
			Land	dscape & Visual				
S10.10.1 Table 10.11	LV3	 <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

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S10.10.1 Table 10.11	LV5	 Lighting Control during Construction All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	 Implemented
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 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 	• Implemented

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							GLTM Section, DEVB	
\$10.10.1 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	Compensatory Planting • 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	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 	• N/A

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		 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 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. 					• ETWB TCW 2/2004	
\$10.10.1 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	LV12	Reinstatement • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government	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 Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/or standards to be achieved	Implementation Status
		departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)						
		·	Cultural Heritage	Impact (Construct	ion Phase)			
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	Implemented
				EM&A Project				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	 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

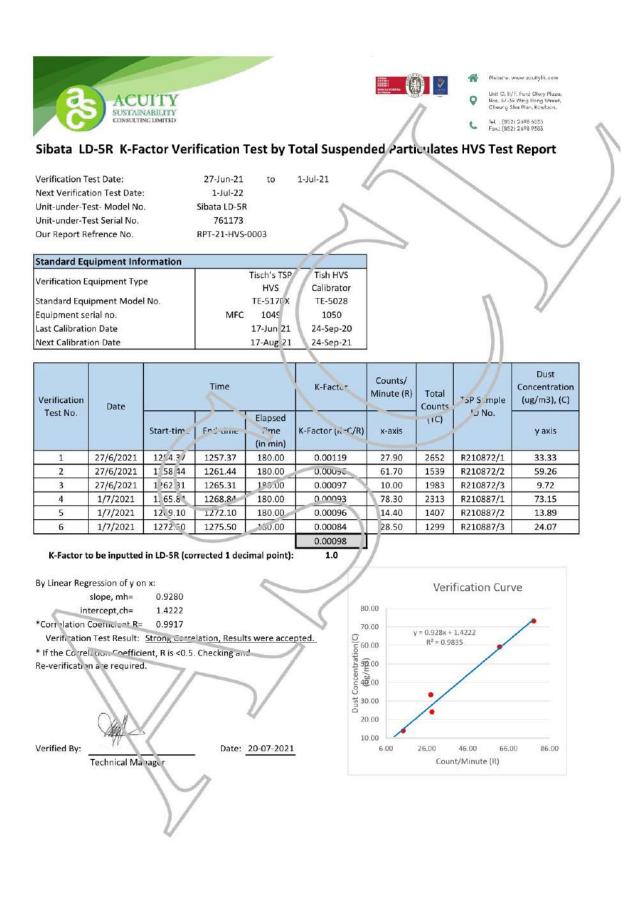
Appendix G Monitoring Schedule of the Reporting Month

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DECEMBER 2021

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

Appendix H Calibration Certificates (Air Monitoring)



15	26							LIBRATION
C. Charles							Aug	ust 3, 2022
vir			2					
	61	rtifi	cate				rtion	
		and the second se	alibration C	and a state of the	0.0-14000-010-0		1000 March 1000	814
Cal. Date:	August 3, 2	021	Roots	neter S/N:	438320		295	°К
Operator:	Jim Tisch					Pa:	750.57	mm Hg
Calibration	Model #:	TE-5028A	Calib	orator S/N:	3702			
		Vol. Init	Val Final	ΔVol.	ΔTime	ΔΡ	ALI	1
	Run	(m3)	Vol. Final (m3)	(m3)	(min)	(mm Hg)	ΔH (in H2O)	
	1	(ins) 1	2	1 (115)	1.3170	(min rig) 4.1	1.50	
	2	3	4	1	1.0350	6.7	2.50	
	3	5	6	1	0.9420	8.0	3.00	
	4	7	8	1	0.8650	9.3	3.50	
	5	9	10	1	0.6540	15.2	6.00	
			C	ata Tabula	tion			
			$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$			11-2010	√∆H(Ta/Pa)	
	Vstd (m3)	Qstd (x-axis)	γ = (Pstd (y-axi		Va	Qa (x-axis)	(y-axis)	
	0.9922	0.7534	1.223		0.9945	0.7552	0.7678	
	0.9887	0.9553	1.579	93	0.9911	0.9576	0.9913	
	0.9870	1.0478	1.730	00	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= b=	1.645		04	m= b=	1.03041	
	QSTD	r=	0.003	20150012	QA	0= /=	0.99975	
	Madal	41/-1//D- 4D	In a different Pre-	Calculatio		A1/-1/(D- 67		
		Vstd/ATime	/Pstd)(Tstd/Ta	0	and the second se	ΔVoi((Pa-ΔF Va/ΔTime	()/Pa)	
	- upite-	vsto/ a mine	For subsequ	ent flow ra	te calculation			
	Qstd=	well Jaul	Pa V Tstd	11	Marco (11	(та/Ра))-ь)	
	ctscu-	1/m((√∆H(·	Pstd / Ta /))-b)	Qd-	TAW ((VAP		
		Conditions		6				
Tstd:						RECAL	IBRATION	
Pstd:		mm Hg ley		1	US EPA reco	ommends ar	nual recalibratio	on per 1998
ΔH: calibrate	r manomet	er reading (in	n H2O)				egulations Part	
ΔP: rootsme	ter manome	eter reading i	(mm Hg)		Appendix B	3 to Part 50,	Reference Meth	od for the
	olute temperature (°K)				Determination of Suspended Particulate Matter in			e Matter in
			11-1					
Ta: actual ab Pa: actual ba b: intercept			Hg)		the	Atmosphe	re, 9.2.17, page 3	80.

Tisch Environmental, Inc. 145 South Miami Avenue

village 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:	cation: Emax			Date:	04-Dec-2021	
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong	

Ambient Condition

Corrected Pressure (mm Hg):	759.4	Temperature (deg K):	298.8

Calibration Orifice

Model:	TE-5028A	Slope:	1.64554
Serial No.:	3702	Intercept:	-0.00368
Calibration Due Date:	3-Aug-22	Corr. Coeff:	0.99975

Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis	
Test #	(in)	(m3/min)	(chart)	(corrected)	
1	1.29	0.692	25.5	25.45	
2	1.55	0.758	27.6	27.56	
3	1.85	0.828	29.7	29.62	
4	2.27	0.916	32.0	31.98	
5	2.70	0.998	34.2	34.17	

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

m=	28.2594	b=	6.0620	Corr. Coeff=	0.9993
Samp	oler set point(SSP)	40	CFM		
		(Calculations		
Qstd = 1/m[Sqrt()	H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/Ps	td)(Tstd/Ta)]		b = sampler intercept		
			I = chart response		
Qstd = standard f	low rate		Tav = average temperature		
IC = corrected ch	art response		Pav = average pressure		
I = actual chart re	sponse				
m = calibrator Q					
b = calibrator Qs	en and an				
	erature during calibration (deg B	Q			
2	are during calibration (mm Hg)				
Tstd = 298 deg K					
Pstd = 760 mm H	g				
	deulation of sampler flow:				
(1.21*m+b)/[Sqrt	(298/Tav)(Pav/760)]				
Charles I have	委官告		Datas	4-De	- 21
Checked by:			_ Date:	4-De	U-21

InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	22-Dec-2021		
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong		

Ambient Condition

Corrected Pressure (mm Hg):	762.8	Temperature (deg K):	292.8

Calibration Orifice

Model:	TE-5028A	Slope:	1.64554
Serial No.:	3702	Intercept:	-0.00368
Calibration Due Date:	3-Aug-22	Corr. Coeff:	0.99975

Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.21	0.679	24.3	24.52
2	1.46	0.743	26.2	26.45
3	1.75	0.815	28.2	28.55
4	1.96	0.862	29.5	29.79
5	2.29	0.932	31.4	31.72

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

m=	28.4643	b=	5.2590	Corr. Coeff=	0.9997
Sample	er set point(SSP)	39	CFM		
0.41 11-18 - 401	2/20-00-512/00-51/00-51	3	Calculations		
IC = I[Sqrt(Pa/Pstd]	2O(Pa/Pstd)(Tstd/Ta))-b])(Tstd/Ta)]		m = sampler slope b = sampler intercept I = chart response		
Pa = actual pressure Tstd = 298 deg K Pstd = 760 mm Hg	t response xonse d slope intercept ature during calibration (deg H e during calibration (mm Hg) culation of sampler flow:	Q	Tav = average temperature Pav = average pressure		
Checked by:	菱银管		Date:	22-De	ec-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 盾明

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

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

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué). 此項 ISO/IEC 17025:2017 的既可資格提明此實驗所算得最近的證明能力並 實施一案與實驗所算作相關的管理體系 (兒園原即可論道、國際實驗所類可合作組織投圖原標準化組織的聯合公唱)。

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

SHOM Wai-leung, Executive Administrator 航行幹事 沈偉良 Issue Date : 2 December 2019 簽發日期:二零一九年十二月二日

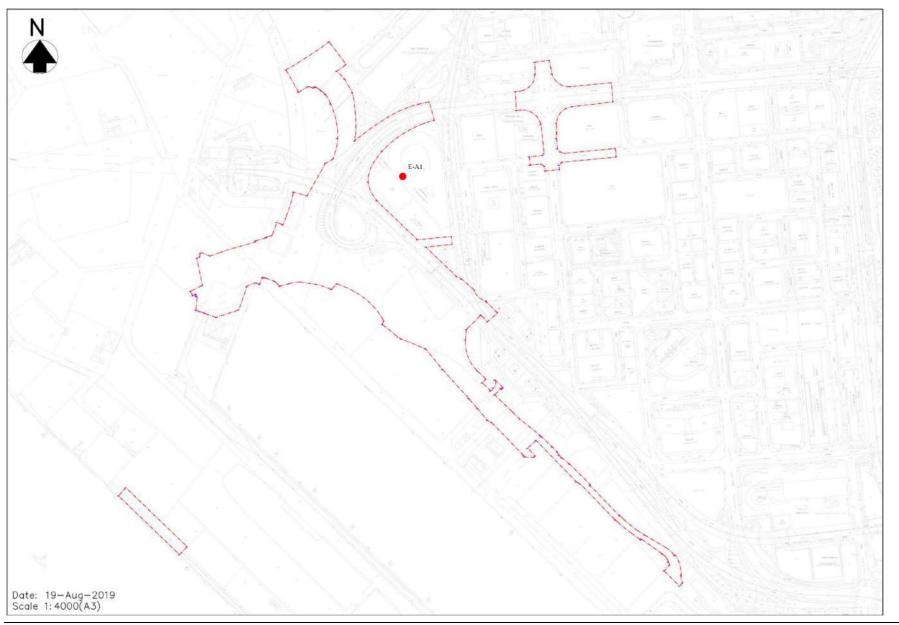
Registration Number: HOKLAS 241 註冊號碼:



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

This certificate is instead subject to the terms and conditions field down by HKAS 本證書授假書港即可處打立的框款及條件者出 L001875

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, 22, 28 and 31 December 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)					
04/12/2021	Sunny	10:55	41	49	52					
10/12/2021	Sunny	10:19	39	48	47					
16/12/2021	Sunny	11:44	54	59	63					
22/12/2021	Fine	9:01	52	57	61					
28/12/2021	Fine	9:13	56	64	59					
31/12/2021	Sunny	9:04	58	67	69					

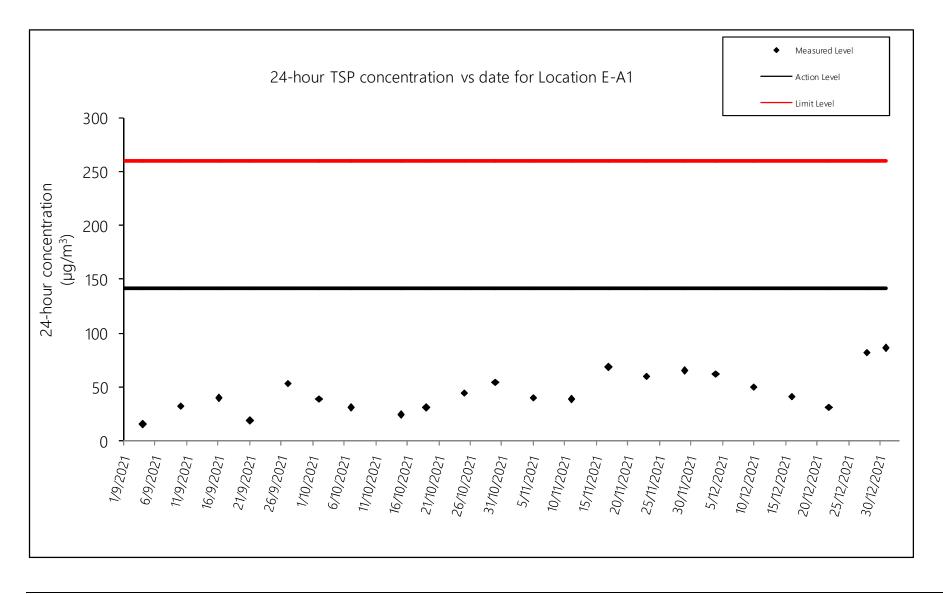


Figure 1: Graphical Illustration of Measured 1-hour TSP ($\mu g/m^3$) Levels at E-A1

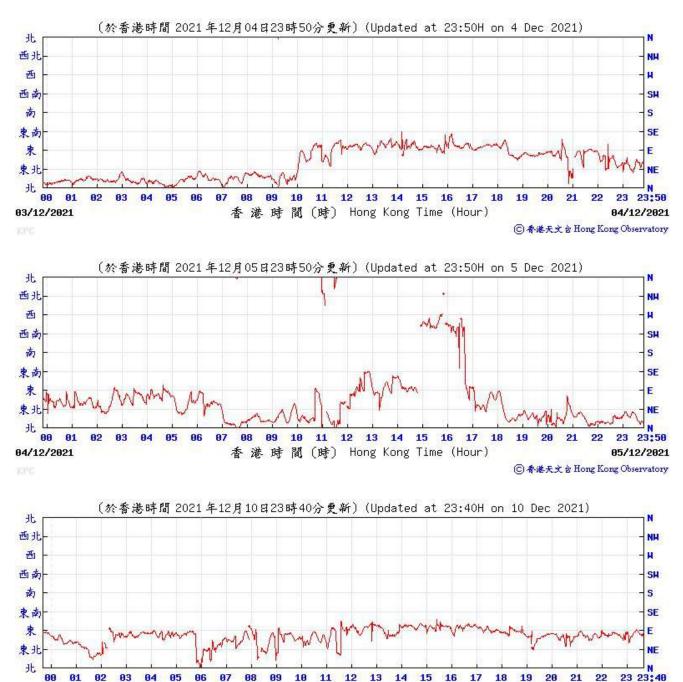
Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 22, 28 and 31 December 2021
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

										Calibrati	Calibration: on due date: Calibration:	18-Dec-21		Slope = Intercept = Slope =	28.2594 6.0620 28.4643
										Calibrati	on due date:	5-Jan-22		Intercept =	5.2590
Start Date	Weather		Elapse Time		С	hart Readin	g	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weigh	t (g)	Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	-10-67 20.000 10 C102100 M U/V	(mm hPa)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m ³)		
04/12/2021	Sunny	3142.68	3166.68	1440.00	38	40	39.0	18.1	1022.2	1.19	1718	2.7888	2.8957	0.1069	62
10/12/2021	Sunny	3166.68	3190.68	1440.00	40	40	40.0	20.9	1020.7	1.22	1757	2.7786	2.8667	0.0881	50
16/12/2021	Sunny	3190.68	3214.68	1440.00	39	41	40.0	23.2	1015.8	1.21	1739	2.7737	2.8451	0.0714	41
22/12/2021	Sunny	3214.68	3238.68	1440.00	40	41	40.5	19.3	1016.5	1.26	1808	2.7706	2.8266	0.0560	31
28/12/2021	Sunny	3238.68	3262.68	1440.00	38	39	38.5	15.3	1024.4	1.20	1734	2.7671	2.9099	0.1428	82
31/12/2021	Sunny	3262.68	3286.68	1440.00	39	41	40.0	18.0	1025.0	1.25	1804	2.7599	2.9142	0.1543	86

min 31 max 82 Figure 2: Graphical Illustration of Measured 24-hour TSP (μ g/m³) Levels at E-A1



09/12/2021

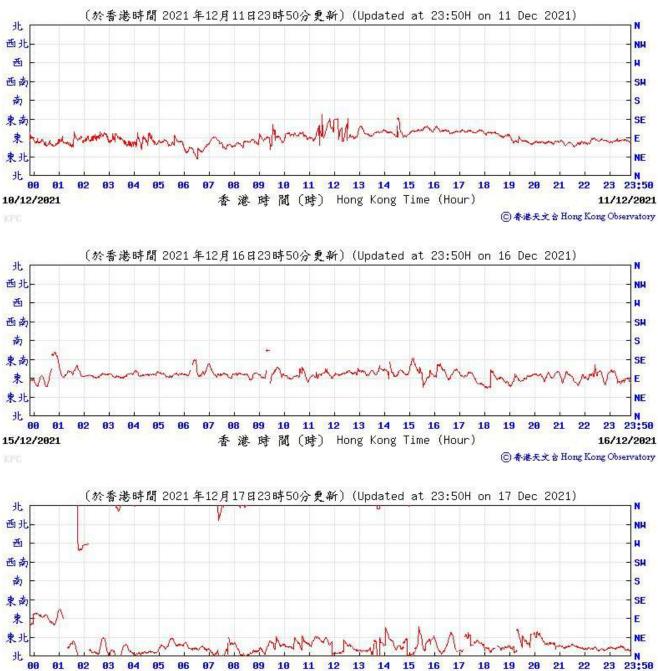


香港時間(時) Hong Kong Time (Hour)

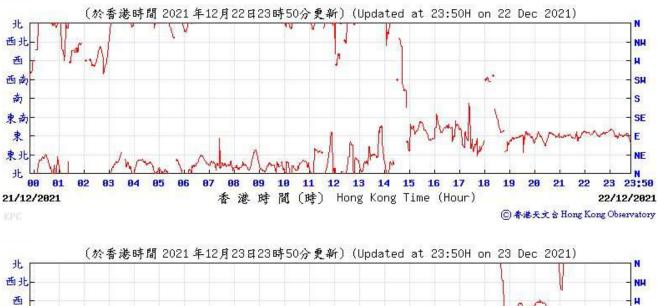
10/12/2021

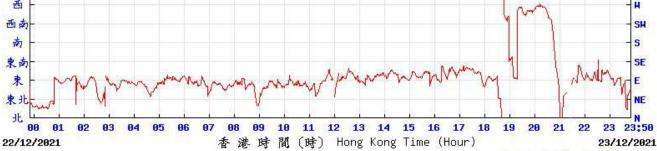
⑥春港天文含 Hong Kong Observatory

WIND DIRECTION DATA FOR 4, 5,10,11 16,17, 22, 23,28,29, 31 December 2021 and 1 January 2022

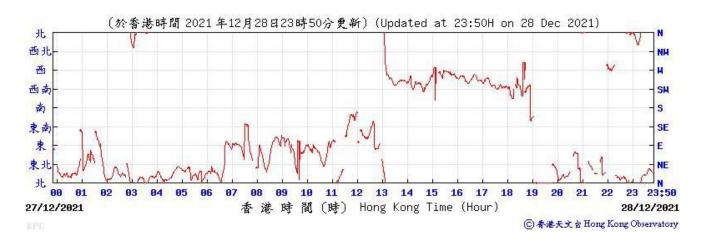


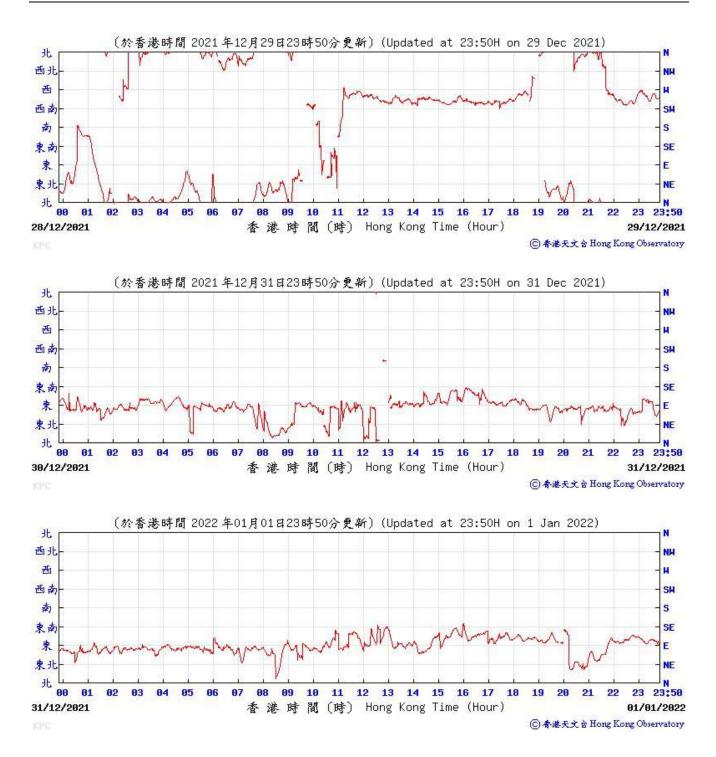
香港時間(時) Hong Kong Time (Hour) 16/12/2021 17/12/2021 ②春港天文 含 Hong Kong Observatory





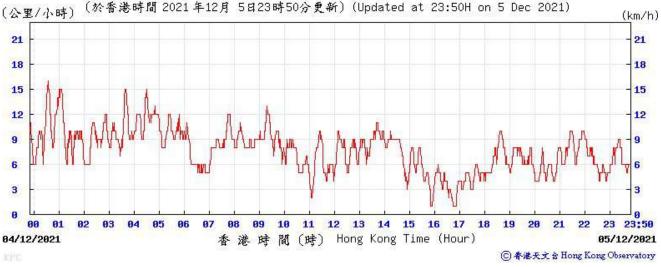




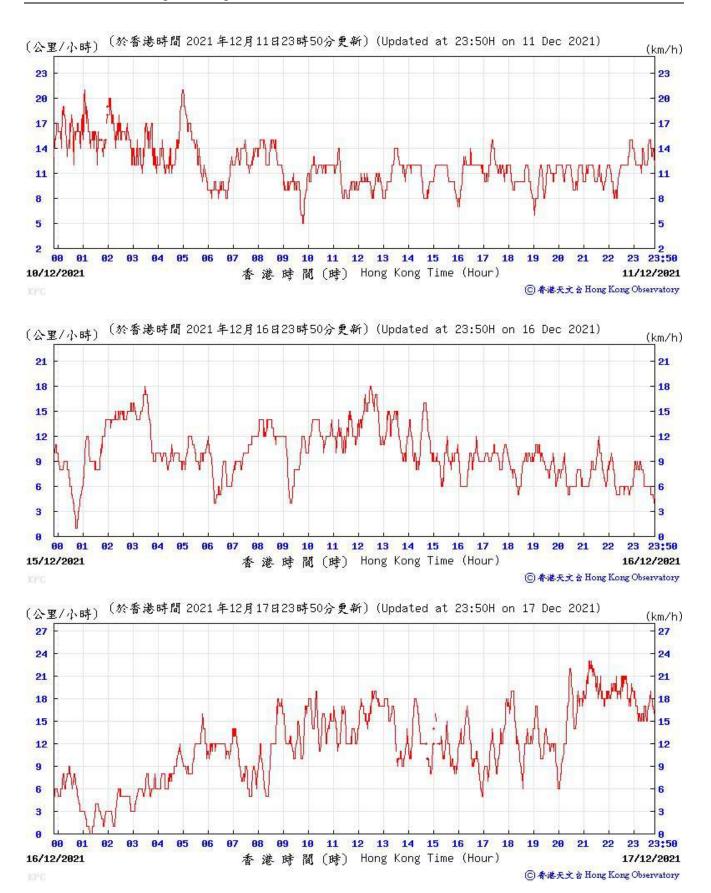




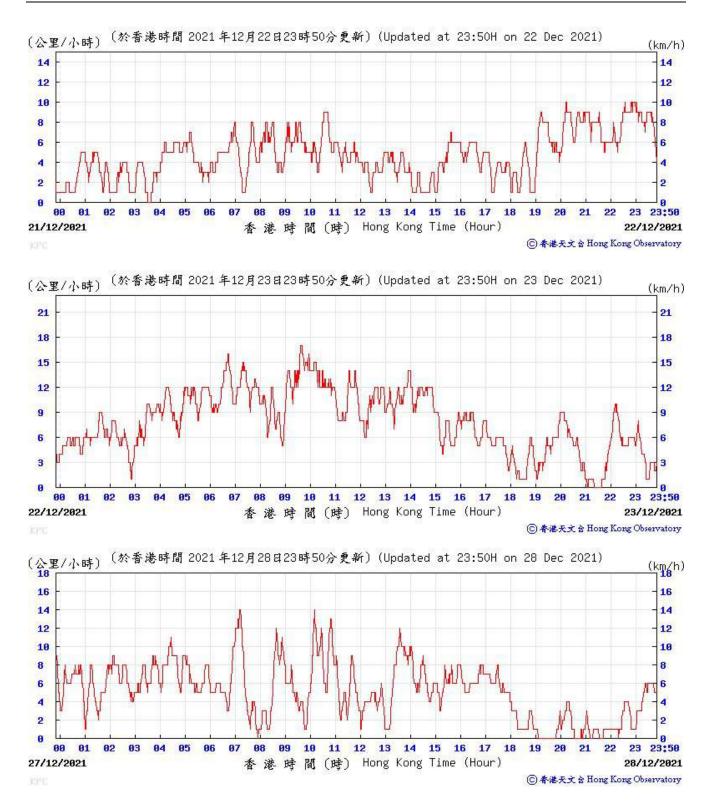
WIND SPEED DATA FOR 4, 5,10,11 16,17, 22, 23,28,29, 31 December 2021 and 1 January 2022

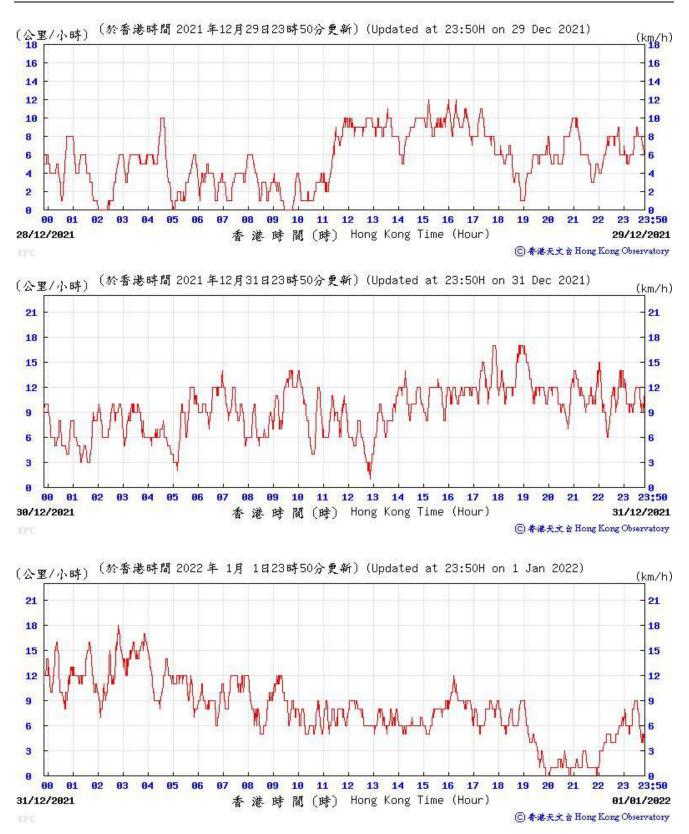






Acuity Sustainability Consulting Ltd.





Appendix L Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Highways Department

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

Monthly Summary Waste Flow Table for <u>December 2021</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> Co	onstruction Waste Genera	ted Monthly	
Month	(a)=(b)+(c)+(d)+(e)+(f)+(g)+(h)+(i)+(j)+(k) Total Quantity Generated	(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	2,234.31	0.00	0.00	0.00	2067.38	0.00
Nov-21	2,619.90	0.00	0.00	0.00	2300.82	0.00
Dec-21	2,375.17	0.00	0.00	0.00	2170.00	0.00
Total	100,327.04	0.00	100.00	40,313.27	57,782.06	0.00
2019	7,646.10	340.00	140.00	0.00	6,643.48	0.00
2020	142,655.94	0.00	140.00	34,998.72	105,790.14	1,109.00
Accumulated Total	250,629.08	340.00	380.00	75,311.99	170,215.68	1,109.00

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly										
Month	(g) Metals		(h) Paper/ cardboard packaging		(i Plas		Chemic	(j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill		
	(in '(000kg)	(in '0	00kg)	(in '00)0kg)	(in '0	00kg)	(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	91.83	91.83	0.01	0.01	0.00	0.00	0.00	0.00	75.09		
Nov-21	204.73	204.73	0.10	0.10	0.00	0.00	0.00	0.00	114.25		
Dec-21	109.04	109.04	0.05	0.05	0.00	0.00	0.00	0.00	96.08		
Total	1,028.67	1,028.67	0.53	0.53	0.00	0.00	0.00	0.00	1,102.52		
2019	22.57	22.57	0.05	0.05	0.00	0.00	0.00	0.00	500.00		
2020	207.47	207.47	1.28	1.28	0.00	0.00	0.00	0.00	409.33		
Accumulated Total	1,258.71	1,258.71	1.86	1.86	0.00	0.00	0.00	0.00	2,011.85		

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

Donouting Douiod	Environmental Complaint Statistics			
Reporting Period	Frequency	Cumulative	Complaint Nature	
1 December 2021– 31 December 2021	0	2	N/A	

Statistical Summary of Environmental Non-compliance

Domonting Domind	Environmental Non-compliance Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 December 2021– 31 December 2021	0	0	N/A	

Statistical Summary of Environmental Summons

Donouting Douiod	Environmental Summons Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 December 2021–	0	0	NI/A	
31 December 2021	0	0	N/A	

Statistical Summary of Environmental Prosecution

Donouting Douiod	Environmental Prosecution Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 December 2021–	0	0	N/A	
31 December 2021	0	0	N/A	

Appendix N Monitoring Schedule of the Coming Month

Janu	ary 2022					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6 Impact Dust monitoring (E-A1)	7	8
9	10	11	12 Impact Dust monitoring (E-A1)	13	14	15
16	17	18 Impact Dust monitoring (E-A1)	19	20	21	22
23	24 Impact Dust monitoring (E-A1)	25	26	27	28	29 Impact Dust monitoring (E-A1)
30	31	1	2	3	4	5

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. 15 (December 2021)

Version 1 Date of Report: 11 January 2021

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

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

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

CINOTECH CONSULTANTS LTD

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





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Buildings, Electrical and Mechanical Works (HY/2019/13)
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Reference Document/Plan

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.15
Date of Report:	11 January 2022 (Version 1)
Date received by IEC:	11 January 2022

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:

11 January 2022

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.15_20220111.docx

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EXECUTIVE SUMMARY

Introduction

- This is the 15th 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 December 2021 – 31st December 2021.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
 - Piling works (pipe piles and sheet piles)

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, 23 & 28 December 2021, whereas joint site inspection with the representative of IEC was conducted on 23 December 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 (December 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/ Remedial Actions	Status/
Event	Number	Brief Description	f Description Follow-up/ Kenteular 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).

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 December 2020.

Purpose of the Report

1.5 This is the 15th 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 December 2021 – 31st December 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**.

Table 1.1	Key Project Contacts	
I UDIC III		

	J J		
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

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).

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					
Fermit / 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 H	Producer – Kai Tak						
5211-286-G2347-54	13 Jul 2020	N/A	Valid				
Wastewater Discharge Licence - 1	Kai Tak						
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid				
Construction Noise Permit - Kai	Tak Site (General W	orks [grouting, pili	ng])				
GW-RE0944-21	24 Sep 2021	23 Mar 2022	Valid				

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 QuantityDisposed as Public Fill (in '000m³)		Others, e.g. general refuse (in '000m ³)	Metals (in '000kg)	Paper/cardboard Packaging (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)							
December 2021	1.048	1.048	0.019	0	0	0	1.2							

 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 7 & 23 December 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, 23 & 28 December 2021 in the reporting month. Joint site inspection with the representative of IEC was conducted on 23 December 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			
Water Quality	28 Dec 2021	Stagnant water should be cleared at Kai Tak Ventilation Building Site.	Stagnant water had been cleared at Kai Tak Ventilation Building Site.			
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			
	23 Dec 2021	Chemicals should be placed on drip tray at Kai Tak Ventilation Building Site.	Chemicals had been removed at Kai Tak Ventilation Building Site.			
Waste / Chemical Management	23 Dec 2021	Drip tray should be provided with adequate capacity at Kai Tak Ventilation Building Site.	Drip tray had been provided with adequate capacity at Kai Tak Ventilation Building Site.			
	28 Dec 2021	Waste skip should be cleared regularly at Kai Tak Ventilation Building Site.	Waste skip had been cleared at Kai Tak Ventilation Building Site.			
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 (October 2021)	14 December 2021

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Piling works (pipe piles and sheet piles).
- 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 15th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st December 2021 – 31st December 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.

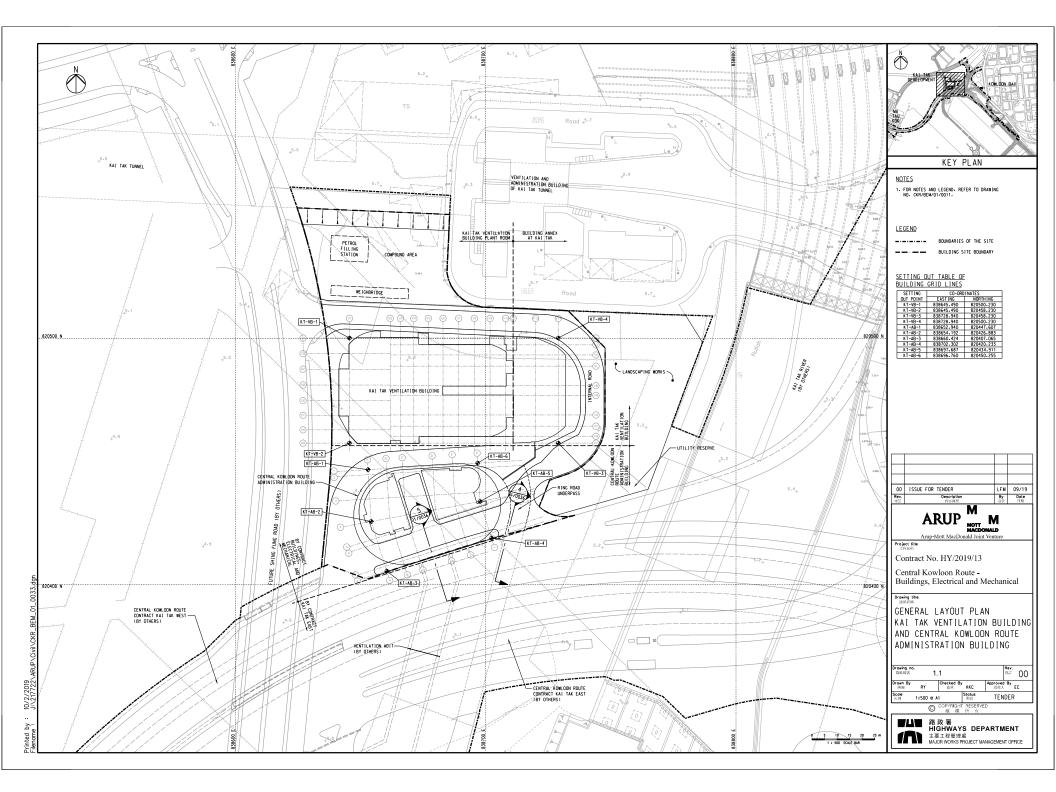
Site Audit

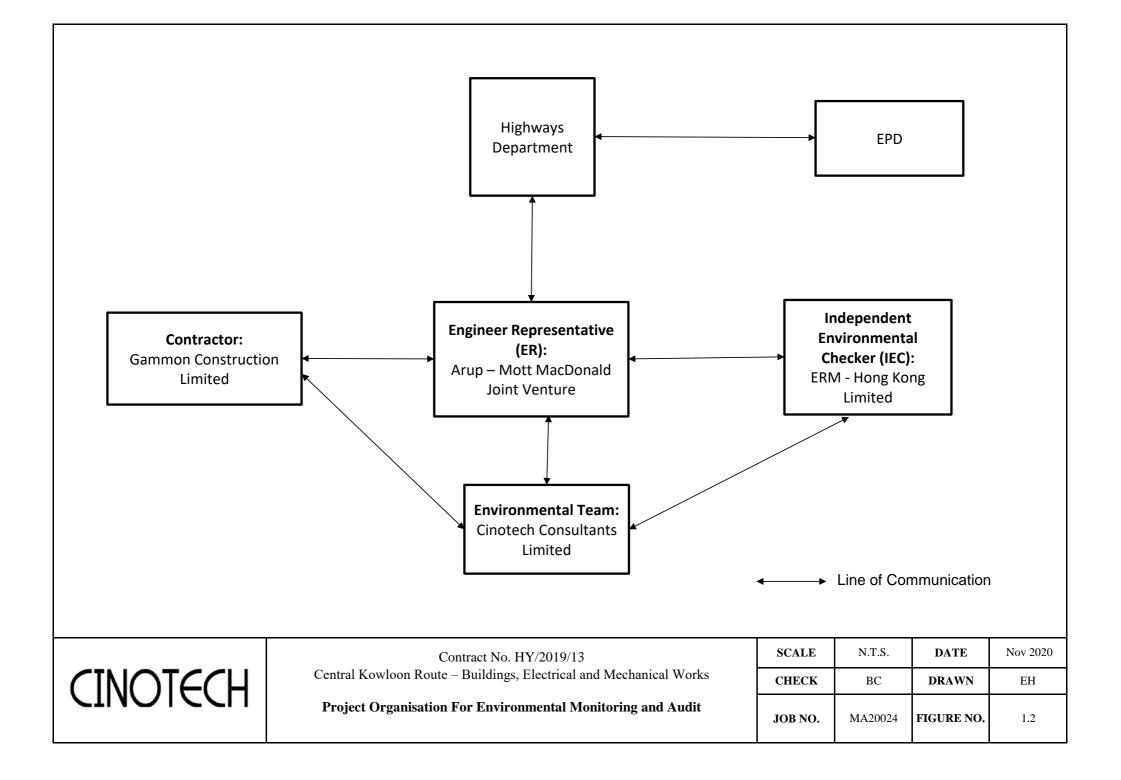
8.4 4 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 7, 14, 23 & 28 December 2021, whereas joint site inspection with the representative of IEC was conducted on 23 December 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

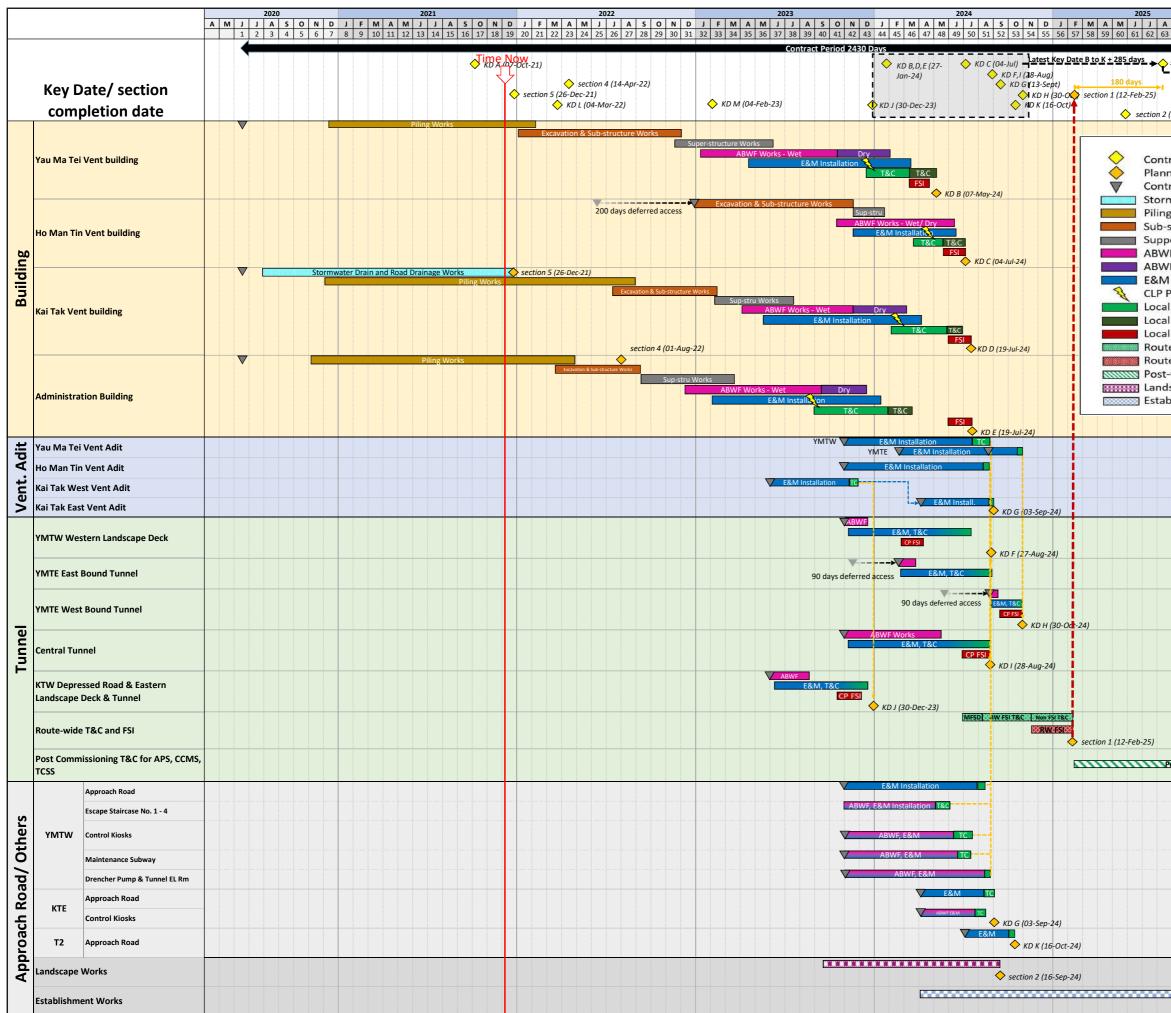




APPENDIX A CONSTRUCTION PROGRAMME



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





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APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Monthly Summary Waste Flow Table

Name of Department: HyD

Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works

<u>Kai Tak Site Area</u>

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		Actual Quanti	tes of Inert C&D	Materials Genera	ited Monthly			Actual	Quantites of C&	D Waste Generat	ed Monthly	
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)
		(see Note 5)										
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)
Jan	0.698	0	0	0	0.698	0	0	0	0	0	0	0.009
Feb	0.412	0	0	0	0.412	0	0	0	0	0	0	0.014
Mar	0.790	0	0	0	0.790	0	0	0	0	0	0	0.021
Apr	0.994	0	0	0	0.994	0	0	0	0	0	0	0.008
May	1.075	0	0	0	1.075	0	0	0	0	0	0	0.007
Jun	1.580	0	0	0	1.580	0	0	0	0	0	0	0.007
Sub-Total	5.550	0	0	0	5.550	0	0	0	0	0	0	0.065
Jul	1.548	0	0	0	1.548	0	0	0	0	0	0	0.023
Aug	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	0.103	0	0	0	0.103	0	0	0	0	0	0	0.030
Nov	0.180	0	0	0	0.180	0	0	0	0	0	0	0.043
Dec	1.048	0	0	0	1.048	0	0	0	0	1.2	0	0.019
Total (2021)	12.416	0	0	0	12.416	0	0	0	0	1.2	0	0.209
Total (whole)	19.208	0	0	0	19.208	0	0	0	0	1.2	0	0.269

Monthly Summary Waste Flow Table for 2021 (year)

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
Marine Sediment:	1.7 T/m3 (in-situ)	Bulk Factor:	1.3
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	e (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	D3	Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the nearby sensitive receivers	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.					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						٨
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						٨
		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						۸
		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

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
		Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						N/A
\$4.3.10	D6		Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	٨
Construction	n Noise (Airbor	ne)		•		•		
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨
		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.						۸
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						^
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						٨
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	-					N/A
S5.4.1	N2	1 9 8	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	۸

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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 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
\$5.4.1	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	^
S5.4.1	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 (Constructio	on Phase)						
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.						^
		Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.						۸
		Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.						٨
		Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.						٨
		All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.						^
		Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.						٨
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.						٨

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
		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-DSS	۸
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						۸
Waste Mana	gement (Const	ruction Waste)						
S7.4.1	WM1	<u>On-site sorting of C&D material</u> Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.	turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	Α

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.	Good site practice to minimize the waste generation and recycle the	Contractor	All construction sites	Construction stage	 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 recycled aggregates where appropriate	far as practicable so as to reduce the amount for final disposal				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.						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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\$7.5.1	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	Land-based and Marine-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.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	^
		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.	-					۸
		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.						N/A
S7.5.1	WM6	<u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling	٨
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.					and Storage of Chemical . Waste	*
		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	Minimize production of the general refuse and avoid odour, pest	Contractor	All construction sites	Construction stage	Waste Disposal Drdinance	۸			
		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.	and litter impacts					*			
		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.						۸			
		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.									۸
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	ntractor PBH4	commencemen f t of F construction C works within -	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.				the contaminated area	Assessment and Remediation • Guidance Manual for	N/A			
		The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.					Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L								
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.	1					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

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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

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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: December 2021

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