Vol. 5 of 5

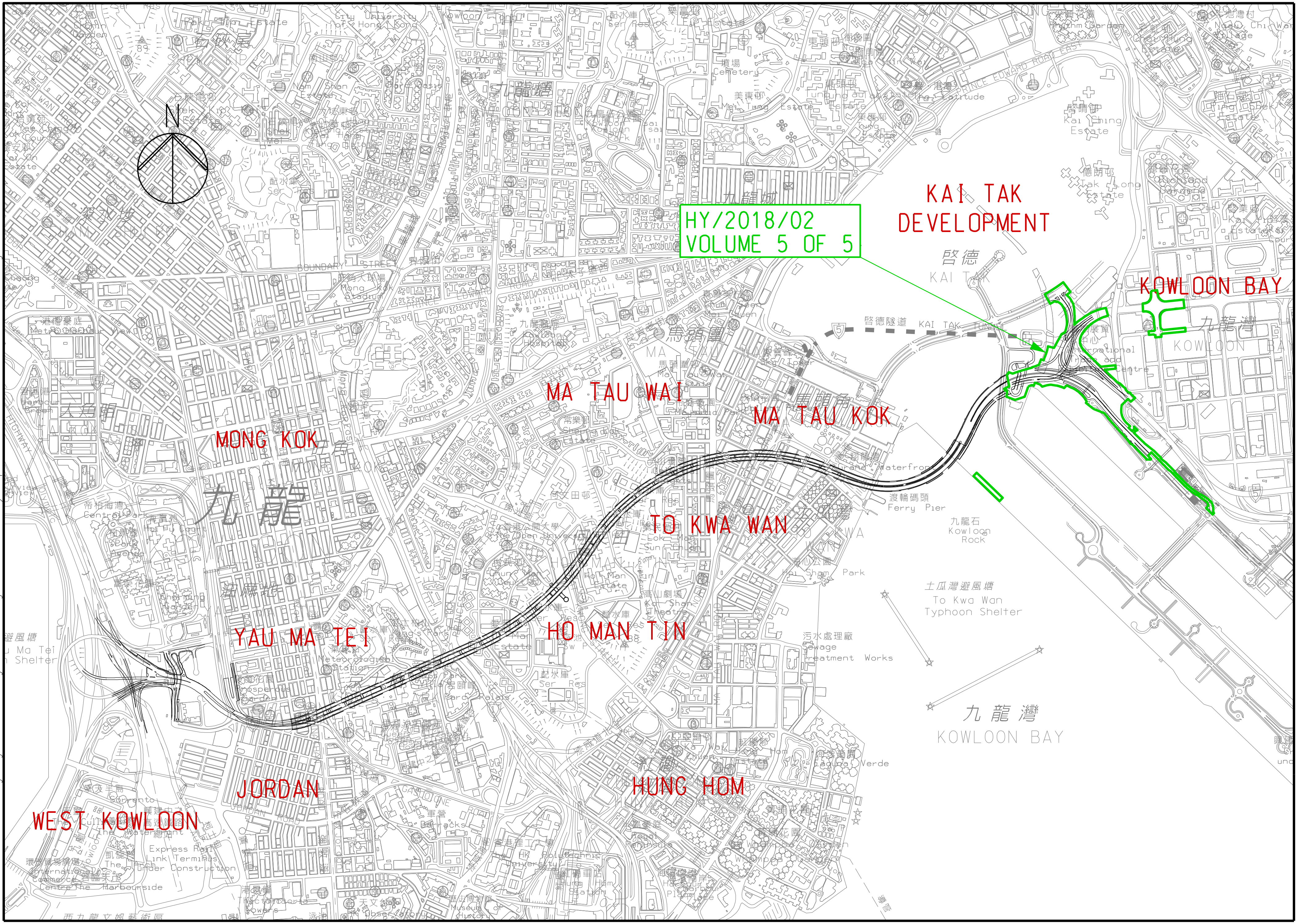
EP-457/2013/C

Central Kowloon Route

Kai Tak East

Contract No. HY/2018/02

April 2020



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路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

ERM

Environmental Permit No. EP-457/2013/C

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.8 (April 2020)
Date of Report:	12 May 2020 (Rev. 2)
Date received by IEC:	12 May 2020

Reference EP Condition

Environmental Permit Condition: 3.4

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.

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-457/2013/C.

Ms Mandy To Date: 12 May 2020

Independent Environmental Checker

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.8.docx

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Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

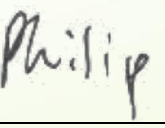
Section of Kai Tak East

Monthly EM&A Report No. 8

(Period from 1 to 30 April 2020)

Rev. 2

(12 May 2020)

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

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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 8th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 April 2020 to 30 April 2020.

A.2 A summary of major Construction activities by Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Ground Investigation at Portion 1A & 2A & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
- Bored Pile at Portion 1A & 3B.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah

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	7 times
Construction dust (1-hour TSP) monitoring	
E-A1	21 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 April 2020. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 22 April 2020. Details of the audit findings and implementation status are presented in Section 5.

A.5 Bi-weekly inspection of the implementation of landscape and visual mitigation measures by ET was conducted on 1, 15 and 29 April 2020. 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
• Ground Investigation at Portion 1A & 2A & 3B & Kai Cheung U Turn & Kai Cheung Loop Road. • Bored Pile at Portion 1A, 2B & 3B. • Foundation Work for the Foot Bridge at Kai Fuk Road. • Sheetpiling Works for Adit at Area 1D3. • Sheetpiling Works for Underpass at Portion 3B. • Construction of Marine Platform at Kai Tak Nallah

1. BASIC PROJECT INFORMATION

1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.

1.2. The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/C) was issued by EPD on 16 January 2017.

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
• Ground Investigation at Portion 1A & 2A & 3B & Kai Cheung U Turn & Kai Cheung Loop Road. • Bored Pile at Portion 1A & 3B. • Foundation Work for the Foot Bridge at Kai Fuk Road. • Sheetpiling Works for Adit at Area 1D3. • Sheetpiling Works for Underpass at Portion 3B. • Construction of Marine Platform at Kai Tak Nallah

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, Notification, Permit and Documentations

Permit/ Licences/ Notification /Reference No.	Valid Period		Status	Remark
	From	To		
Environmental Permit				
EP-457/2013/C	23 Apr 2019	End of Project	Valid	-
Wastewater Discharge License				
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				
445001	Apr2019	Dec 2023	Notified	-
Chemical Waste Producer Registration				
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Disposal of Construction Waste				
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permit				
GW-RE0202-20	26 Mar 2020	20 Jun 2020	Valid	Central Divider Removal
GW-RE0160-20	16 Mar 2020	15 Sep 2020	Valid	General Work for Zone A
GW-RE0097-20	24 Feb 2020	11 Aug 2020	Valid	General Work for Area B and Site Office
GW-RE0177-20	20 Mar 2020	22 Apr 2020	Valid	Loop Road Paving Work
GW-RE0142-20	11 Mar 2020	25 Apr 2020	Valid	Tree Pruning/Transplanting at Wang Kwong Road

2. ENVIRONMENTAL STATUS

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

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

EP Condition (EP-457/2013/C)	Submission	Submission date
Condition 1.12	Notification of Commencement Date of Construction of the Project	26 Jul 2019
Condition 2.4	Management organisation of the main construction companies	26 Jul 2019
Condition 2.5	Construction Programme and EP Submission Schedule	26 Jul 2019
Condition 2.6	Design Drawing	26 Jul 2019
Condition 2.8	Landscape Mitigation Plan	26 Jul 2019
Condition 3.3	Baseline Monitoring Report	21 Aug 2019
Condition 3.4	Monthly EM&A Report (March 2020)	14 Apr 2020

2.2. Details of the major construction activities provided by the Contractor in this reporting period are shown in Table 2.2.

Table 2.2 Summary of Construction Activities provided by Contractor during the Reporting Month.

Construction Activities undertaken

- Ground Investigation at Portion 1A & 2A & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
- Bored Pile at Portion 1A & 3B.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah

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

Table 2.3 Summary for the location of monitoring station

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

3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

3.1.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.

3.1.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.

3.1.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

3.2. Monitoring Equipment

Air Quality

3.2.1. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).

3.2.2. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in Appendix G.

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 F.

3.2.4. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Table 3.1 Construction Dust Monitoring Equipment

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	851820	23 Aug 2019
24-hour TSP	TE-5170X High Volume Sampler	1085	7, 23 Apr 2020
	TE-5028A Calibration Kit	3702A	10 Oct 2019

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 H;
- 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℃ and not varied by more than ±3℃; 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 1.22-1.37 m^3min^{-3}, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m^3min^{-3});
- 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-5028A Calibration Kit. HVS is calibrated in fortnightly Intervals. The calibration records for the HVS is given in Appendix G.

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 I.

Table 3.2 Location of the Dust Monitoring Stations

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.

Table 3.3: Summary of Impact Monitoring Programme

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

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

Table 3.4 Observation at Dust Monitoring Station

Monitoring Station	Major Dust Source
E-A1	Nearby traffic

3.6.2. Air quality impact monitoring for the reporting month was carried out on 1, 7, 9, 14, 18, 24 and 28 April 2020 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 J.

Table 3.5 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range(μg/m³)	Action Level(μg/m3)	Limit Level(μg/m3)
E-A1	34 - 44	279	500

Table 3.6 Summary of 24-hour TSP Monitoring Results

Monitoring Location	Range(μg/m³)	Action Level(μg/m3)	Limit Level(μg/m3)
E-A1	32 - 70	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 K.

Table 3.7 Quantities of waste generated from the Project

Reporting period	Quantity					
	Inert C&D Materials (in 'tonnes)	Chemical Waste (in'000 Kg)	Non-inert C&D Materials			
			Others, e.g. General Refuse disposed at Landfill (in 'tonnes)	Recycled materials		
				Paper/card board (in '000 Kg)	Plastics (in '000 Kg)	Metals (in '000 Kg)
Apr-2020	2617.0	0.0	14.7	0.1	0.0	0.0

4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

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

Table 4.1 Environmental Complaint Handling Procedure

Complaint Received via Project Hotline	Complaint Received via 1823 or from other government departments
Contractor notify ER, ET and IEC	ER notify Contractor, ET and IEC
Contractor log complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint	
If complaint is considered not valid	If complaint is found valid
ET or ER to reply the complainant if necessary	Contractor to identify and implement remedial measures in consultation with the IEC, ET and ER.
	The ER, ET and IEC to review the effectiveness of the Contractor's remedial measures and the updated situation; ET to undertake additional monitoring and audit to verify the situation if necessary, and oversee that circumstances leading to the complaint do not recur. ER to conduct further inspection as necessary.
If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the complaint investigation and follow-up actions stipulated above, including the details of the remedial measures and additional monitoring identified or already taken, for submission to EPD within the time frame assigned by the EPD	
The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports	

4.2. Should non-compliance of the criteria occur, action in accordance with the Action Plan in Appendix D shall be carried out.

4.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded during the reporting month.

4.4. No complaint and non-compliance were received in the reporting month.

4.5. No notification of summons and successful prosecution was received in the reporting period.

4.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix L.

5. EM&A SITE INSPECTION

5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 5 site inspections were carried out by the representative of ET, Contractor and Engineer on 1, 8, 15, 22 and 29 April 2020, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 1, 15 and 29 April 2020.

5.2. One joint site inspection with IEC also undertaken on 22 April 2020. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Table 5.1 Site Observations

Date	Environmental Observations	Follow-up Status
1 Apr 2020	1. Soil and oil/water mixture on drip tray should be cleaned in Portion 1A. 2. Drip tray beside resting area was found without plugged in Portion 3B. 3. An oil drum was put on ground without drip tray in Portion 3B.	1. Soil was removed. 2. Hole was plugged. 3. Container was removed.
8 Apr 2020	1. Oil stain should be removed in Portion 1A. 2. No drip tray is found for chemical container in Kai Fuk Road Loop Road.	1. Oil stain was removed. 2. The container was removed.
15 Apr 2020	1. Oil stain is found in near sheet pile in Portion 1A and near GI area in Kai Fuk Loop Road. 2. Regular water spraying to haul road should be implemented in Portion 1A.	1. Oil stain was removed. 2. Watering was provided.
22 Apr 2020	1. Mitigation measure should be provided to avoid seepage of untreated wastewater from Portion 3B. 2. Good housekeeping should be maintained. General refuse should be collected properly within site area.	1. Sump pit was made to collect the water to prevent flow out. 2. Waste was removed.
29 Apr 2020	1. At Wang Kwong Road, retained trees should be properly protected. 2. Opened cement bag should be covered if not in use. 3. EP copy should be displayed at each site area. 4. Enhanced mitigation measure should be provided to ensure no untreated wastewater is flew into storm drain.	1. Enhanced protection was given to the trees. 2. Cement was covered. 3. EP was provided. 4. Mitigation measures had been enhanced to prevent muddy water leakage.

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

5.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents had been implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in Appendix E.

6. FUTURE KEY ISSUES

6.1. The construction activities provided by Contractor in the next reporting month are:

- Ground Investigation at Portion 1A & 2A & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
- Bored Pile at Portion 1A, 2B & 3B.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah

6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.

6.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix M.

6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

7. CONCLUSION AND RECOMMENDATIONS

7.1. This 8th monthly EM&A Report presents the EM&A works undertaken during the period from 1 April 2020 to 30 April 2020 in accordance with the EM&A Manual and the requirement under EP- 457/2013/C.

7.2. Air quality (including 1-hour TSP and 24-hour TSP) was carried out in the reporting period. No exceedance of the Action and Limit Level was recorded for air quality impact monitoring during the reporting month.

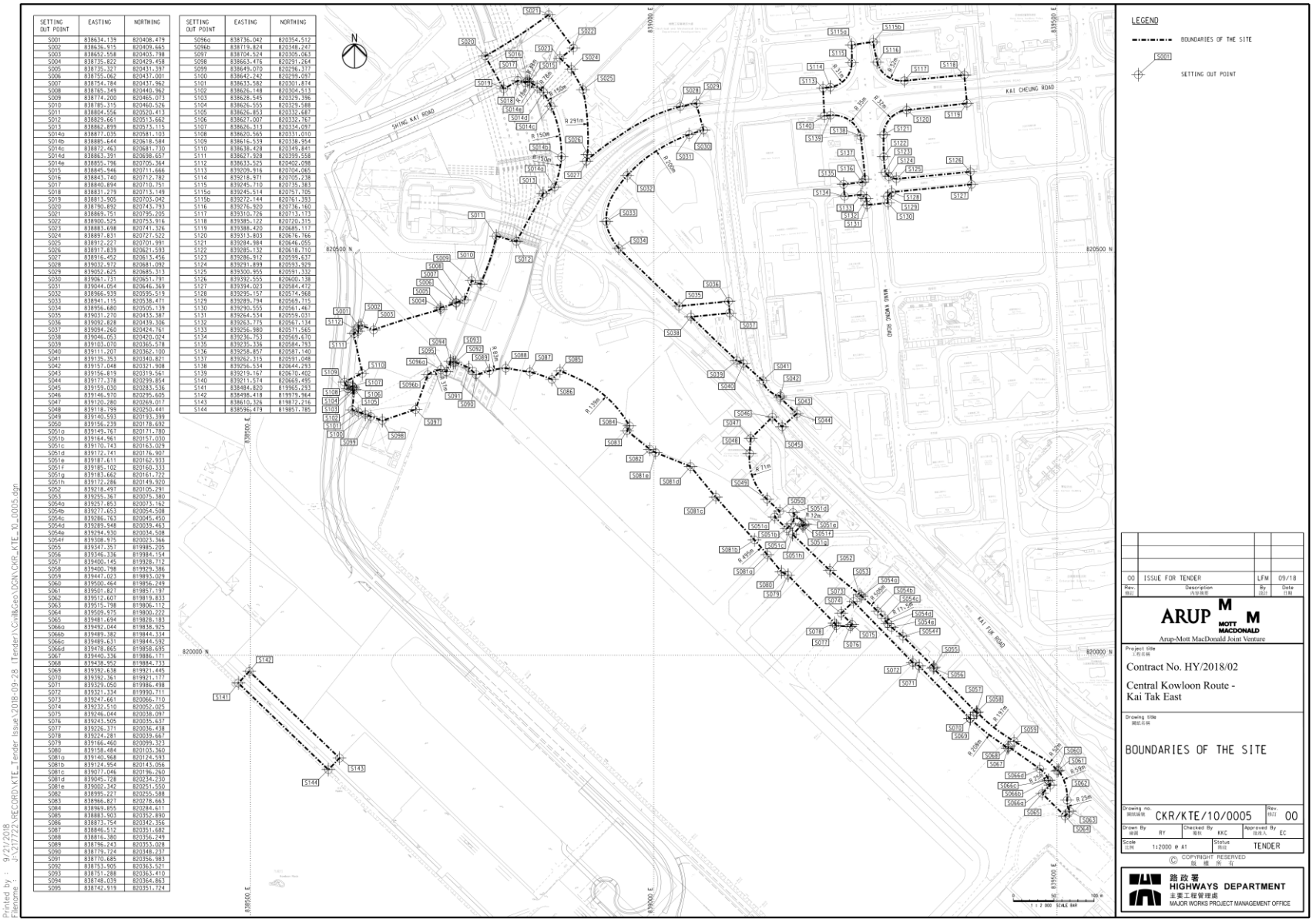
7.3. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. Joint site inspection with IEC were carried out on 22 April 2020. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

7.4. No complaint and non-compliance situation were received in the reporting month.

7.5. No notification of summons or prosecution was received since commencement of the Contract.

7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

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



SETTING OUT POINT	EASTING	NORTHING
S001	838634.139	820408.479
S002	838636.915	820409.665
S003	838652.558	820403.798
S004	838735.822	820429.458
S005	838735.327	820431.397
S006	838755.062	820437.001
S007	838754.784	820437.962
S008	838765.349	820440.967
S009	838774.200	820465.073
S010	838785.315	820460.526
S011	838804.556	820520.413
S012	838829.661	820513.662
S013	838862.899	820573.115
S014g	838877.035	820581.103
S014b	838885.644	820618.584
S014c	838872.463	820681.730
S014d	838863.391	820698.657
S014e	838855.796	820705.364
S015	838845.946	820711.666
S016	838843.740	820717.782
S017	838840.894	820710.757
S018	838831.278	820713.149
S019	838813.905	820703.042
S020	838790.892	820745.793
S021	838869.751	820795.205
S022	838900.525	820753.916
S023	838883.698	820741.326
S024	838897.831	820727.522
S025	838912.227	820701.991
S026	838917.039	820671.593
S027	838916.452	820613.456
S028	839032.372	820681.092
S029	839052.625	820685.313
S030	839061.731	820651.791
S031	839044.054	820646.369
S032	838966.939	820595.519
S033	838941.115	820538.471
S034	838956.680	820505.139
S035	839031.270	820433.387
S036	839092.828	820439.306
S037	839094.260	820424.761
S038	839046.053	820420.024
S039	839103.070	820365.578
S040	839111.207	820362.100
S041	839135.353	820340.821
S042	839157.048	820321.908
S043	839156.819	820319.561
S044	839177.378	820299.854
S045	839159.030	820283.536
S046	839146.970	820295.605
S047	839120.280	820269.017
S048	839118.799	820250.441
S049	839140.593	820193.399
S050	839156.239	820178.682
S051g	839149.767	820171.780
S051b	839164.961	820157.030
S051c	839170.743	820163.029
S051d	839172.741	820176.907
S051e	839187.611	820162.933
S051f	839185.102	820160.533
S051g	839183.662	820161.722
S051h	839172.286	820149.920
S052	839218.497	820105.291
S053	839255.367	820075.380
S054g	839257.853	820073.162
S054b	839277.653	820054.508
S054c	839286.763	820045.450
S054d	839289.948	820039.463
S054e	839294.930	820034.508
S054f	839308.975	820023.366
S055	839347.357	819985.205
S056	839346.336	819984.154
S057	839400.145	819928.712
S058	839400.798	819929.386
S059	839447.023	819893.029
S060	839500.464	819856.749
S061	839501.827	819857.197
S062	839512.607	819819.833
S063	839515.798	819806.112
S064	839509.975	819800.222
S065	839481.694	819828.181
S066g	839492.044	819838.925
S066b	839489.382	819844.334
S066c	839489.631	819844.592
S066d	839478.865	819858.695
S067	839440.336	819886.171
S068	839438.952	819884.733
S069	839392.638	819921.445
S070	839382.361	819921.177
S071	839329.050	819986.498
S072	839321.334	819990.711
S073	839247.661	820066.710
S074	839232.510	820052.025
S075	839246.044	820038.097
S076	839243.505	820035.637
S077	839226.371	820036.438
S078	839224.281	820039.667
S079	839166.460	820099.323
S080	839158.484	820103.360
S081g	839140.968	820124.593
S081b	839124.954	820143.056
S081c	839077.046	820196.260
S081d	839045.728	820234.230
S081e	839002.342	820251.550
S082	838995.227	820255.588
S083	838966.827	820278.663
S084	838969.855	820284.611
S085	838883.903	820352.890
S086	838873.754	820342.356
S087	838846.512	820351.682
S088	838816.380	820356.249
S089	838786.243	820353.029
S090	838779.724	820348.237
S091	838770.685	820356.983
S092	838753.905	820363.521
S093	838751.288	820363.410
S094	838748.039	820364.863
S095	838742.319	820351.724

SETTING OUT POINT	EASTING	NORTHING
S096g	838736.042	820354.512
S096b	838719.824	820348.247
S097	838704.524	820305.063
S098	838663.476	820291.264
S099	838649.070	820296.377
S100	838642.242	820299.097
S101	838633.582	820301.874
S102	838626.148	820304.513
S103	838628.545	820329.396
S104	838626.555	820329.588
S105	838626.853	820332.687
S106	838627.007	820332.767
S107	838626.313	820334.097
S108	838620.565	820331.010
S109	838616.539	820338.954
S110	838638.428	820349.841
S111	838627.928	820359.558
S112	838633.525	820402.098
S113	839209.916	820704.065
S114	839218.971	820705.238
S115	839245.710	820735.383
S115g	839245.514	820757.705
S115b	839272.144	820761.393
S116	839276.920	820736.160
S117	839310.726	820713.173
S118	839385.122	820720.315
S119	839388.420	820685.117
S120	839313.803	820676.766
S121	839284.984	820646.055
S122	839285.132	820618.710
S123	839286.912	820599.637
S124	839291.899	820593.929
S125	839300.955	820591.532
S126	839392.555	820600.138
S127	839394.023	820584.472
S128	839295.157	820574.968
S129	839289.794	820569.715
S130	839290.555	820561.467
S131	839264.534	820559.031
S132	839263.775	820567.134
S133	839256.980	820571.565
S134	839236.753	820569.670
S135	839235.336	820584.793
S136	839258.857	820587.140
S137	839262.315	820591.048
S138	839256.534	820644.293
S139	839219.167	820670.402
S140	839211.574	820669.495
S141	838484.820	819965.293
S142	838498.418	819979.964
S143	838610.326	819872.216
S144	838596.479	819857.785

LEGEND

BOUNDARIES OF THE SITE

S001 SETTING OUT POINT

Rev. 修訂	Description 內容修訂	By 由	Date 日期
00	ISSUE FOR TENDER	LFM	09/18

ARUP MOTT MACDONALD
Arup-Mott MacDonald Joint Venture

Project title 工程名稱
Contract No. HY/2018/02
Central Kowloon Route - Kai Tak East

Drawing title 圖紙名稱
BOUNDARIES OF THE SITE

Drawing no. 圖紙編號	CKR/KTE/10/0005	Rev. 修訂	00
Drawn By 繪圖	RY	Checked By 複核	KKC
Approved By 批准人	EC		
Scale 比例	1:2000 @ A1	Status 狀態	TENDER

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路政署 HIGHWAYS DEPARTMENT
主要工程管理處 MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : 9/21/2018
Filename : J:\217723\RECORDS\KTE_Tender Issue\2018-09-28 (Tender)\Civil&Geo\DGN\CKR_KTE_10_0005.dgn

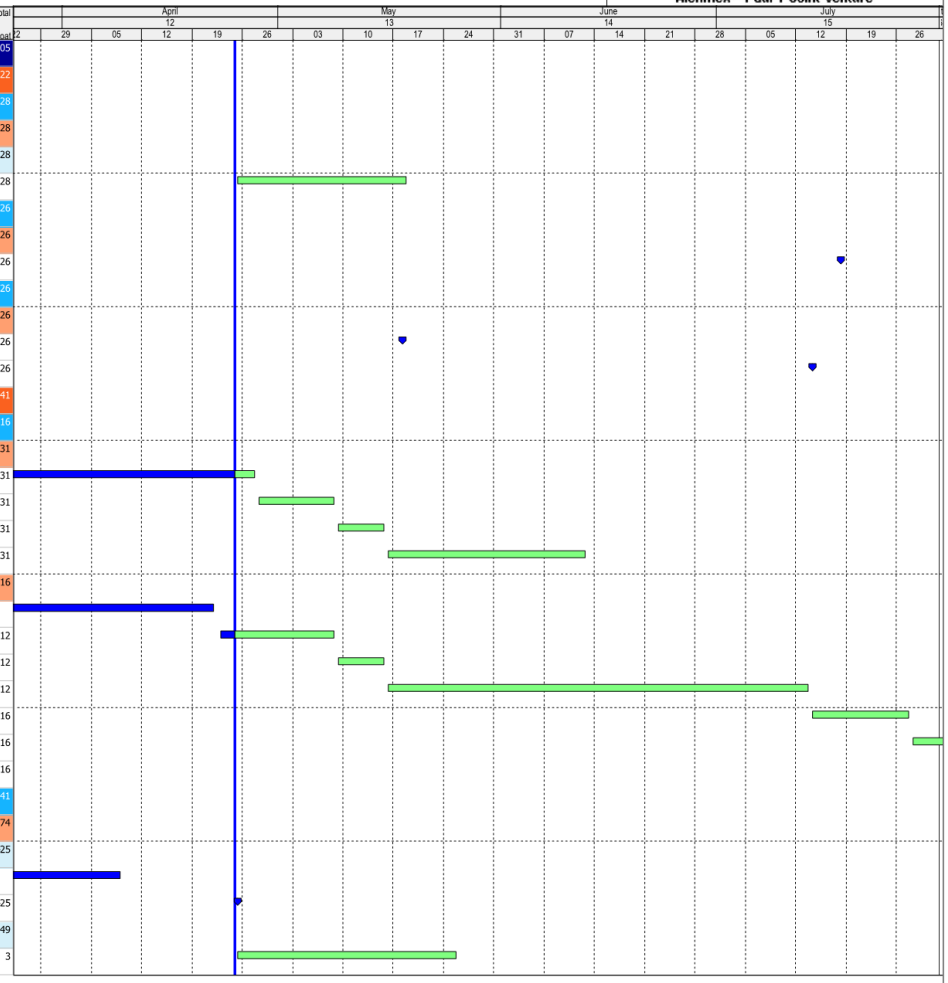
Appendix B
Construction Programme

Data Date: 25-Apr-20
Print Date: 29-Apr-20 14:46

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

Alchmex – Paul Y Joint Venture

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
Central Kowloon Route - Kai Tak East (Month 12 Update) (Re		333	25-Oct-19 A	25-Nov-20	20-Dec-19	19-Aug-22	505
PRELIMINARIES AND GENERAL REQUIREMENTS		68	25-Apr-20	18-Jul-20	23-May-20	11-Dec-20	122
General Submissions and Approvals		24	25-Apr-20	18-May-20	23-May-20	15-Jun-20	28
SA - Submission to PM Representative		24	25-Apr-20	18-May-20	23-May-20	15-Jun-20	28
Method Statement and Proposals		24	25-Apr-20	18-May-20	23-May-20	15-Jun-20	28
SA-1036	SA - Submit Method Statement for Stabilisation and Re-use of Excavated Uncontaminated Sediement (d 6.96)	24	25-Apr-20	18-May-20	23-May-20	15-Jun-20	28
Independent Safety Audit Scheme ACC D31(5)		0	18-Jul-20	18-Jul-20	13-Aug-20	13-Aug-20	26
Safety Aduit		0	18-Jul-20	18-Jul-20	13-Aug-20	13-Aug-20	26
SA-1106	3rd Safety Audit at 6 months intervals	0	18-Jul-20		13-Aug-20		26
Utilities Schedule (WSD/DSD/CLP/TG/PCCW/HKB/ATC/KT Tur		47	18-May-20	14-Jul-20	16-Oct-20	11-Dec-20	126
Utilities Monthly Meeting		47	18-May-20	14-Jul-20	16-Oct-20	11-Dec-20	126
UU-1102	5th Utilities monthly meeting	0	18-May-20		16-Oct-20		126
UU-1104	6th Utilities monthly meeting	0	14-Jul-20		11-Dec-20		126
DESIGN AND ENGINEERING		284	26-Oct-19 A	13-Oct-20	12-Mar-20	19-Aug-22	541
Permanent Works Design & Engineering		220	02-Dec-19 A	02-Sep-20	12-May-20	21-Sep-20	16
DES - Architectural works for Footbridge		38	25-Mar-20 A	12-Jun-20	03-Jun-20	21-Jul-20	31
DES-1210	DES - Project Manager checking and approval	24	25-Mar-20 A	27-Apr-20	03-Jun-20	04-Jun-20	31
DES-1216	DES - Prepare submission of details design	8	28-Apr-20	08-May-20	05-Jun-20	13-Jun-20	31
DES-1218	DES - ICE checking and approval	6	09-May-20	15-May-20	15-Jun-20	20-Jun-20	31
DES-1220	DES - Project Manager checking and approval; consent to start the works	24	16-May-20	12-Jun-20	22-Jun-20	21-Jul-20	31
DES - E&M Works		220	02-Dec-19 A	02-Sep-20	12-May-20	21-Sep-20	16
DES-1202	DES - Prepare preliminary proposal submission	78	02-Dec-19 A	22-Apr-20 A	12-May-20	12-May-20	
DES-1208	DES - Prepare submission of design and drawings	12	23-Apr-20 A	08-May-20	12-May-20	22-May-20	12
DES-1212	DES - ICE checking and approval	6	09-May-20	15-May-20	23-May-20	29-May-20	12
DES-1214	DES - Project Manager, HyD, EMSD and FSD checking and approval	48	16-May-20	13-Jul-20	30-May-20	27-Jul-20	12
DES-1222	DES - Prepare submission of details design	12	14-Jul-20	27-Jul-20	01-Aug-20	14-Aug-20	16
DES-1224	DES - ICE checking and approval	8	28-Jul-20	05-Aug-20	15-Aug-20	24-Aug-20	16
DES-1226	DES - Project Manager, HyD, EMSD and FSD checking and approval; consent to start the works	24	06-Aug-20	02-Sep-20	25-Aug-20	21-Sep-20	16
Cost Saving Design & Engineering		219	04-Jan-20 A	13-Oct-20	21-Mar-20	19-Aug-22	541
CSD-B for Bridges at Ground		219	04-Jan-20 A	13-Oct-20	21-Mar-20	31-May-22	474
Detailed Design for Bridge S9 - Piles & Pile Caps		78	04-Jan-20 A	25-Apr-20	21-Mar-20	21-Mar-20	-25
DES-0118	CSD-B(S9 Piles & Pile Caps) Submit to PM & all relevant parties for review and approval	48	04-Jan-20 A	09-Apr-20 A	21-Mar-20	21-Mar-20	
DES-0120	CSD-B(S9 Piles & Pile Caps) Consent to start the works	0		25-Apr-20		21-Mar-20	-25
Detailed Design for Bridge S9 - Piers & Deck		94	25-Apr-20	17-Aug-20	29-Apr-20	15-Oct-20	49
DES-0122	CSD-B(S9 Piers & Deck) ICE Checking and approval	24	25-Apr-20	25-May-20	29-Apr-20	28-May-20	3



Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 12 Update) (Rev6 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP06_M12
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

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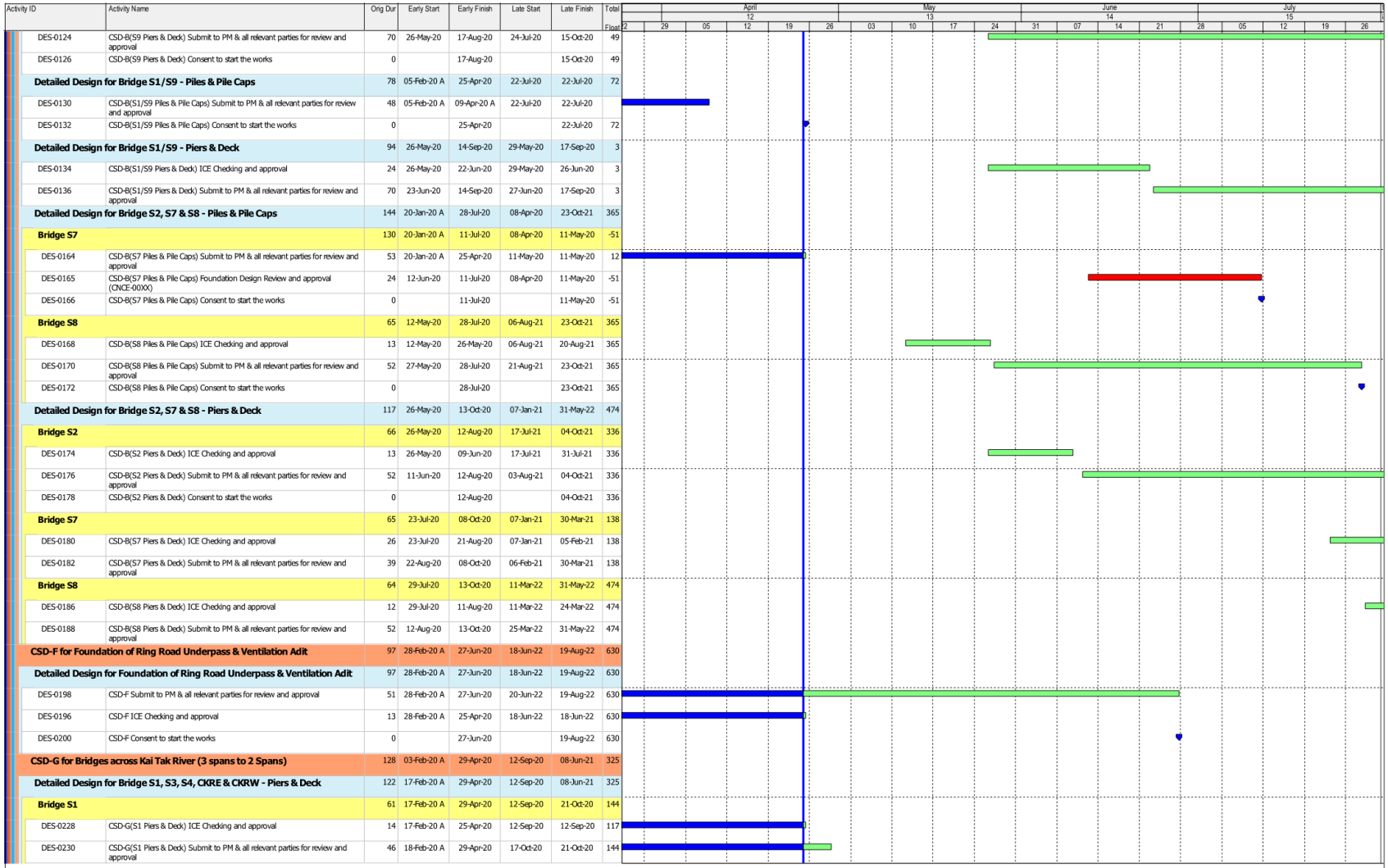
Date	Revision	Checked	Approved
11-Feb-20	Submit CSD Programme Rev3	TST	DC
16-Mar-20	Submit CSD Programme Rev5	TST	DC
14-Apr-20	Submit CSD Programme Rev5_B	TST	DC
24-Apr-20	Submit CSD Programme Rev6	TST	DC
29-Apr-20	Submit Monthly Report M12	TST	DC



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
DES-0124	CSD-B(S9 Piers & Deck) Submit to PM & all relevant parties for review and approval	70	26-May-20	17-Aug-20	24-Jul-20	15-Oct-20	49
DES-0126	CSD-B(S9 Piers & Deck) Consent to start the works	0		17-Aug-20		15-Oct-20	49
Detailed Design for Bridge S1/S9 - Piles & Pile Caps		78	05-Feb-20 A	25-Apr-20	22-Jul-20	22-Jul-20	72
DES-0130	CSD-B(S1/S9 Piles & Pile Caps) Submit to PM & all relevant parties for review and approval	48	05-Feb-20 A	09-Apr-20 A	22-Jul-20	22-Jul-20	
DES-0132	CSD-B(S1/S9 Piles & Pile Caps) Consent to start the works	0		25-Apr-20		22-Jul-20	72
Detailed Design for Bridge S1/S9 - Piers & Deck		94	26-May-20	14-Sep-20	29-May-20	17-Sep-20	3
DES-0134	CSD-B(S1/S9 Piers & Deck) ICE Checking and approval	24	26-May-20	22-Jun-20	29-May-20	26-Jun-20	3
DES-0136	CSD-B(S1/S9 Piers & Deck) Submit to PM & all relevant parties for review and approval	70	23-Jun-20	14-Sep-20	27-Jun-20	17-Sep-20	3
Detailed Design for Bridge S2, S7 & S8 - Piles & Pile Caps		144	20-Jan-20 A	28-Jul-20	08-Apr-20	23-Oct-21	365
Bridge S7		130	20-Jan-20 A	11-Jul-20	08-Apr-20	11-May-20	-51
DES-0164	CSD-B(S7 Piles & Pile Caps) Submit to PM & all relevant parties for review and approval	53	20-Jan-20 A	25-Apr-20	11-May-20	11-May-20	12
DES-0165	CSD-B(S7 Piles & Pile Caps) Foundation Design Review and approval (CNCE-00XX)	24	12-Jun-20	11-Jul-20	08-Apr-20	11-May-20	-51
DES-0166	CSD-B(S7 Piles & Pile Caps) Consent to start the works	0		11-Jul-20		11-May-20	-51
Bridge S8		65	12-May-20	28-Jul-20	06-Aug-21	23-Oct-21	365
DES-0168	CSD-B(S8 Piles & Pile Caps) ICE Checking and approval	13	12-May-20	26-May-20	06-Aug-21	20-Aug-21	365
DES-0170	CSD-B(S8 Piles & Pile Caps) Submit to PM & all relevant parties for review and approval	52	27-May-20	28-Jul-20	21-Aug-21	23-Oct-21	365
DES-0172	CSD-B(S8 Piles & Pile Caps) Consent to start the works	0		28-Jul-20		23-Oct-21	365
Detailed Design for Bridge S2, S7 & S8 - Piers & Deck		117	26-May-20	13-Oct-20	07-Jan-21	31-May-22	474
Bridge S2		66	26-May-20	12-Aug-20	17-Jul-21	04-Oct-21	336
DES-0174	CSD-B(S2 Piers & Deck) ICE Checking and approval	13	26-May-20	09-Jun-20	17-Jul-21	31-Jul-21	336
DES-0176	CSD-B(S2 Piers & Deck) Submit to PM & all relevant parties for review and approval	52	11-Jun-20	12-Aug-20	03-Aug-21	04-Oct-21	336
DES-0178	CSD-B(S2 Piers & Deck) Consent to start the works	0		12-Aug-20		04-Oct-21	336
Bridge S7		65	23-Jul-20	08-Oct-20	07-Jan-21	30-Mar-21	138
DES-0180	CSD-B(S7 Piers & Deck) ICE Checking and approval	26	23-Jul-20	21-Aug-20	07-Jan-21	05-Feb-21	138
DES-0182	CSD-B(S7 Piers & Deck) Submit to PM & all relevant parties for review and approval	39	22-Aug-20	08-Oct-20	06-Feb-21	30-Mar-21	138
Bridge S8		64	29-Jul-20	13-Oct-20	11-Mar-22	31-May-22	474
DES-0186	CSD-B(S8 Piers & Deck) ICE Checking and approval	12	29-Jul-20	11-Aug-20	11-Mar-22	24-Mar-22	474
DES-0188	CSD-B(S8 Piers & Deck) Submit to PM & all relevant parties for review and approval	52	12-Aug-20	13-Oct-20	25-Mar-22	31-May-22	474
CSD-F for Foundation of Ring Road Underpass & Ventilation Adit		97	28-Feb-20 A	27-Jun-20	18-Jun-22	19-Aug-22	630
Detailed Design for Foundation of Ring Road Underpass & Ventilation Adit		97	28-Feb-20 A	27-Jun-20	18-Jun-22	19-Aug-22	630
DES-0198	CSD-F Submit to PM & all relevant parties for review and approval	51	28-Feb-20 A	27-Jun-20	20-Jun-22	19-Aug-22	630
DES-0196	CSD-F ICE Checking and approval	13	28-Feb-20 A	25-Apr-20	18-Jun-22	18-Jun-22	630
DES-0200	CSD-F Consent to start the works	0		27-Jun-20		19-Aug-22	630
CSD-G for Bridges across Kai Tak River (3 spans to 2 Spans)		128	03-Feb-20 A	29-Apr-20	12-Sep-20	08-Jun-21	325
Detailed Design for Bridge S1, S3, S4, CKRE & CKRW - Piers & Deck		122	17-Feb-20 A	29-Apr-20	12-Sep-20	08-Jun-21	325
Bridge S1		61	17-Feb-20 A	29-Apr-20	12-Sep-20	21-Oct-20	144
DES-0228	CSD-G(S1 Piers & Deck) ICE Checking and approval	14	17-Feb-20 A	25-Apr-20	12-Sep-20	12-Sep-20	117
DES-0230	CSD-G(S1 Piers & Deck) Submit to PM & all relevant parties for review and approval	46	18-Feb-20 A	29-Apr-20	17-Oct-20	21-Oct-20	144

April, May, June, July

Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 12 Update) (Rev6 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP06_M12
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

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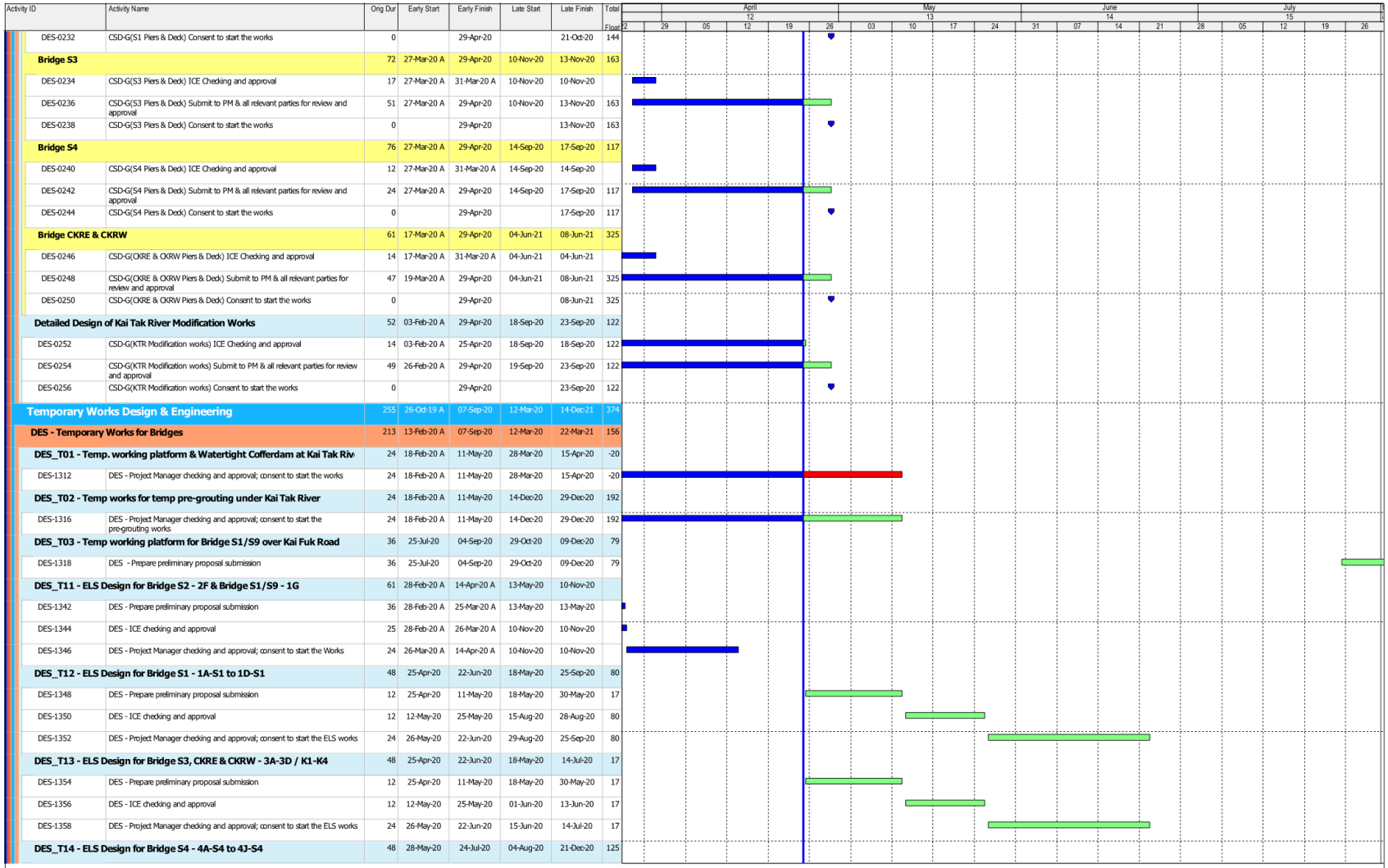
Date	Revision	Checked	Approved
11-Feb-20	Submit CSD Programme Rev3	TST	DC
16-Mar-20	Submit CSD Programme Rev5	TST	DC
14-Apr-20	Submit CSD Programme Rev5_B	TST	DC
24-Apr-20	Submit CSD Programme Rev6	TST	DC
29-Apr-20	Submit Monthly Report M12	TST	DC



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
DES-0232	CSD-G(S1 Piers & Deck) Consent to start the works	0		29-Apr-20		21-Oct-20	144
Bridge S3		72	27-Mar-20 A	29-Apr-20	10-Nov-20	13-Nov-20	163
DES-0234	CSD-G(S3 Piers & Deck) ICE Checking and approval	17	27-Mar-20 A	31-Mar-20 A	10-Nov-20	10-Nov-20	
DES-0236	CSD-G(S3 Piers & Deck) Submit to PM & all relevant parties for review and approval	51	27-Mar-20 A	29-Apr-20	10-Nov-20	13-Nov-20	163
DES-0238	CSD-G(S3 Piers & Deck) Consent to start the works	0		29-Apr-20		13-Nov-20	163
Bridge S4		76	27-Mar-20 A	29-Apr-20	14-Sep-20	17-Sep-20	117
DES-0240	CSD-G(S4 Piers & Deck) ICE Checking and approval	12	27-Mar-20 A	31-Mar-20 A	14-Sep-20	14-Sep-20	
DES-0242	CSD-G(S4 Piers & Deck) Submit to PM & all relevant parties for review and approval	24	27-Mar-20 A	29-Apr-20	14-Sep-20	17-Sep-20	117
DES-0244	CSD-G(S4 Piers & Deck) Consent to start the works	0		29-Apr-20		17-Sep-20	117
Bridge CKRE & CKRW		61	17-Mar-20 A	29-Apr-20	04-Jun-21	08-Jun-21	325
DES-0246	CSD-G(CKRE & CKRW Piers & Deck) ICE Checking and approval	14	17-Mar-20 A	31-Mar-20 A	04-Jun-21	04-Jun-21	
DES-0248	CSD-G(CKRE & CKRW Piers & Deck) Submit to PM & all relevant parties for review and approval	47	19-Mar-20 A	29-Apr-20	04-Jun-21	08-Jun-21	325
DES-0250	CSD-G(CKRE & CKRW Piers & Deck) Consent to start the works	0		29-Apr-20		08-Jun-21	325
Detailed Design of Kai Tak River Modification Works		52	03-Feb-20 A	29-Apr-20	18-Sep-20	23-Sep-20	122
DES-0252	CSD-G(KTR Modification works) ICE Checking and approval	14	03-Feb-20 A	25-Apr-20	18-Sep-20	18-Sep-20	122
DES-0254	CSD-G(KTR Modification works) Submit to PM & all relevant parties for review and approval	49	26-Feb-20 A	29-Apr-20	19-Sep-20	23-Sep-20	122
DES-0256	CSD-G(KTR Modification works) Consent to start the works	0		29-Apr-20		23-Sep-20	122
Temporary Works Design & Engineering		255	26-Oct-19 A	07-Sep-20	12-Mar-20	14-Dec-21	374
DES - Temporary Works for Bridges		213	13-Feb-20 A	07-Sep-20	12-Mar-20	22-Mar-21	156
DES_T01 - Temp. working platform & Watertight Cofferdam at Kai Tak Riv		24	18-Feb-20 A	11-May-20	28-Mar-20	15-Apr-20	-20
DES-1312	DES - Project Manager checking and approval; consent to start the works	24	18-Feb-20 A	11-May-20	28-Mar-20	15-Apr-20	-20
DES_T02 - Temp works for temp pre-grouting under Kai Tak River		24	18-Feb-20 A	11-May-20	14-Dec-20	29-Dec-20	192
DES-1316	DES - Project Manager checking and approval; consent to start the pre-grouting works	24	18-Feb-20 A	11-May-20	14-Dec-20	29-Dec-20	192
DES_T03 - Temp working platform for Bridge S1/S9 over Kai Fuk Road		36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES-1318	DES - Prepare preliminary proposal submission	36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES_T11 - ELS Design for Bridge S2 - 2F & Bridge S1/S9 - 1G		61	28-Feb-20 A	14-Apr-20 A	13-May-20	10-Nov-20	
DES-1342	DES - Prepare preliminary proposal submission	36	28-Feb-20 A	25-Mar-20 A	13-May-20	13-May-20	
DES-1344	DES - ICE checking and approval	25	28-Feb-20 A	26-Mar-20 A	10-Nov-20	10-Nov-20	
DES-1346	DES - Project Manager checking and approval; consent to start the Works	24	26-Mar-20 A	14-Apr-20 A	10-Nov-20	10-Nov-20	
DES_T12 - ELS Design for Bridge S1 - 1A-S1 to 1D-S1		48	25-Apr-20	22-Jun-20	18-May-20	25-Sep-20	80
DES-1348	DES - Prepare preliminary proposal submission	12	25-Apr-20	11-May-20	18-May-20	30-May-20	17
DES-1350	DES - ICE checking and approval	12	12-May-20	25-May-20	15-Aug-20	28-Aug-20	80
DES-1352	DES - Project Manager checking and approval; consent to start the ELS works	24	26-May-20	22-Jun-20	29-Aug-20	25-Sep-20	80
DES_T13 - ELS Design for Bridge S3, CKRE & CKRW - 3A-3D / K1-K4		48	25-Apr-20	22-Jun-20	18-May-20	14-Jul-20	17
DES-1354	DES - Prepare preliminary proposal submission	12	25-Apr-20	11-May-20	18-May-20	30-May-20	17
DES-1356	DES - ICE checking and approval	12	12-May-20	25-May-20	01-Jun-20	13-Jun-20	17
DES-1358	DES - Project Manager checking and approval; consent to start the ELS works	24	26-May-20	22-Jun-20	15-Jun-20	14-Jul-20	17
DES_T14 - ELS Design for Bridge S4 - 4A-S4 to 4J-S4		48	28-May-20	24-Jul-20	04-Aug-20	21-Dec-20	125

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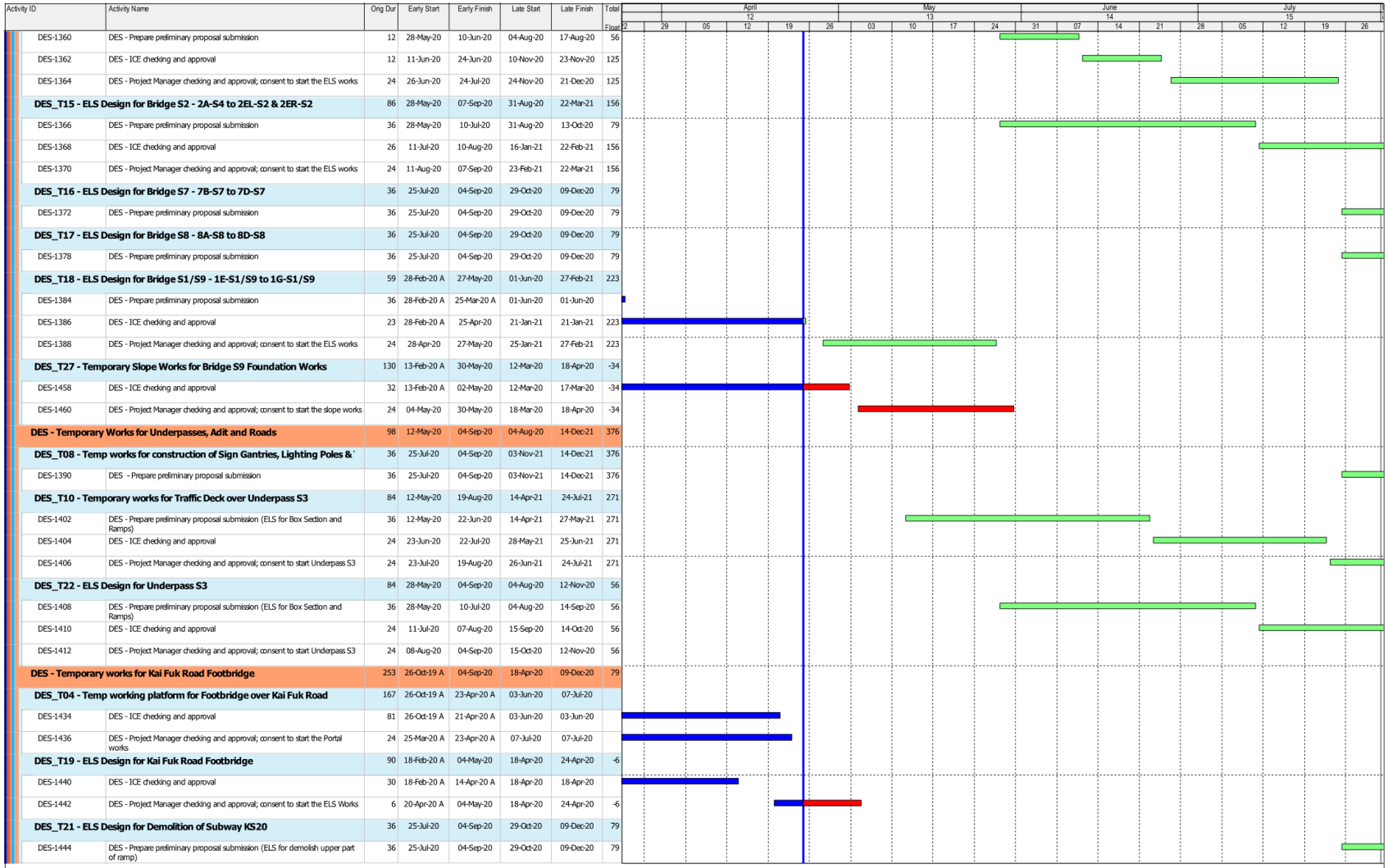

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DES-1360	DES - Prepare preliminary proposal submission	12	28-May-20	10-Jun-20	04-Aug-20	17-Aug-20	56
DES-1362	DES - ICE checking and approval	12	11-Jun-20	24-Jun-20	10-Nov-20	23-Nov-20	125
DES-1364	DES - Project Manager checking and approval; consent to start the ELS works	24	26-Jun-20	24-Jul-20	24-Nov-20	21-Dec-20	125
DES_T15 - ELS Design for Bridge S2 - 2A-S4 to 2EL-S2 & 2ER-S2		86	28-May-20	07-Sep-20	31-Aug-20	22-Mar-21	156
DES-1366	DES - Prepare preliminary proposal submission	36	28-May-20	10-Jul-20	31-Aug-20	13-Oct-20	79
DES-1368	DES - ICE checking and approval	26	11-Jul-20	10-Aug-20	16-Jan-21	22-Feb-21	156
DES-1370	DES - Project Manager checking and approval; consent to start the ELS works	24	11-Aug-20	07-Sep-20	23-Feb-21	22-Mar-21	156
DES_T16 - ELS Design for Bridge S7 - 7B-S7 to 7D-S7		36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES-1372	DES - Prepare preliminary proposal submission	36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES_T17 - ELS Design for Bridge S8 - 8A-S8 to 8D-S8		36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES-1378	DES - Prepare preliminary proposal submission	36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES_T18 - ELS Design for Bridge S1/S9 - 1E-S1/S9 to 1G-S1/S9		59	28-Feb-20 A	27-May-20	01-Jun-20	27-Feb-21	223
DES-1384	DES - Prepare preliminary proposal submission	36	28-Feb-20 A	25-Mar-20 A	01-Jun-20	01-Jun-20	
DES-1386	DES - ICE checking and approval	23	28-Feb-20 A	25-Apr-20	21-Jan-21	21-Jan-21	223
DES-1388	DES - Project Manager checking and approval; consent to start the ELS works	24	28-Apr-20	27-May-20	25-Jan-21	27-Feb-21	223
DES_T27 - Temporary Slope Works for Bridge S9 Foundation Works		130	13-Feb-20 A	30-May-20	12-Mar-20	18-Apr-20	-34
DES-1458	DES - ICE checking and approval	32	13-Feb-20 A	02-May-20	12-Mar-20	17-Mar-20	-34
DES-1460	DES - Project Manager checking and approval; consent to start the slope works	24	04-May-20	30-May-20	18-Mar-20	18-Apr-20	-34
DES - Temporary Works for Underpasses, Adit and Roads		98	12-May-20	04-Sep-20	04-Aug-20	14-Dec-21	376
DES_T08 - Temp works for construction of Sign Gantries, Lighting Poles &		36	25-Jul-20	04-Sep-20	03-Nov-21	14-Dec-21	376
DES-1390	DES - Prepare preliminary proposal submission	36	25-Jul-20	04-Sep-20	03-Nov-21	14-Dec-21	376
DES_T10 - Temporary works for Traffic Deck over Underpass S3		84	12-May-20	19-Aug-20	14-Apr-21	24-Jul-21	271
DES-1402	DES - Prepare preliminary proposal submission (ELS for Box Section and Ramps)	36	12-May-20	22-Jun-20	14-Apr-21	27-May-21	271
DES-1404	DES - ICE checking and approval	24	23-Jun-20	22-Jul-20	28-May-21	25-Jun-21	271
DES-1406	DES - Project Manager checking and approval; consent to start Underpass S3	24	23-Jul-20	19-Aug-20	26-Jun-21	24-Jul-21	271
DES_T22 - ELS Design for Underpass S3		84	28-May-20	04-Sep-20	04-Aug-20	12-Nov-20	56
DES-1408	DES - Prepare preliminary proposal submission (ELS for Box Section and Ramps)	36	28-May-20	10-Jul-20	04-Aug-20	14-Sep-20	56
DES-1410	DES - ICE checking and approval	24	11-Jul-20	07-Aug-20	15-Sep-20	14-Oct-20	56
DES-1412	DES - Project Manager checking and approval; consent to start Underpass S3	24	08-Aug-20	04-Sep-20	15-Oct-20	12-Nov-20	56
DES - Temporary works for Kai Fuk Road Footbridge		253	26-Oct-19 A	04-Sep-20	18-Apr-20	09-Dec-20	79
DES_T04 - Temp working platform for Footbridge over Kai Fuk Road		167	26-Oct-19 A	23-Apr-20 A	03-Jun-20	07-Jul-20	
DES-1434	DES - ICE checking and approval	81	26-Oct-19 A	21-Apr-20 A	03-Jun-20	03-Jun-20	
DES-1436	DES - Project Manager checking and approval; consent to start the Portal works	24	25-Mar-20 A	23-Apr-20 A	07-Jul-20	07-Jul-20	
DES_T19 - ELS Design for Kai Fuk Road Footbridge		90	18-Feb-20 A	04-May-20	18-Apr-20	24-Apr-20	-6
DES-1440	DES - ICE checking and approval	30	18-Feb-20 A	14-Apr-20 A	18-Apr-20	18-Apr-20	
DES-1442	DES - Project Manager checking and approval; consent to start the ELS Works	6	20-Apr-20 A	04-May-20	18-Apr-20	24-Apr-20	-6
DES_T21 - ELS Design for Demolition of Subway KS20		36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79
DES-1444	DES - Prepare preliminary proposal submission (ELS for demolish upper part of ramp)	36	25-Jul-20	04-Sep-20	29-Oct-20	09-Dec-20	79

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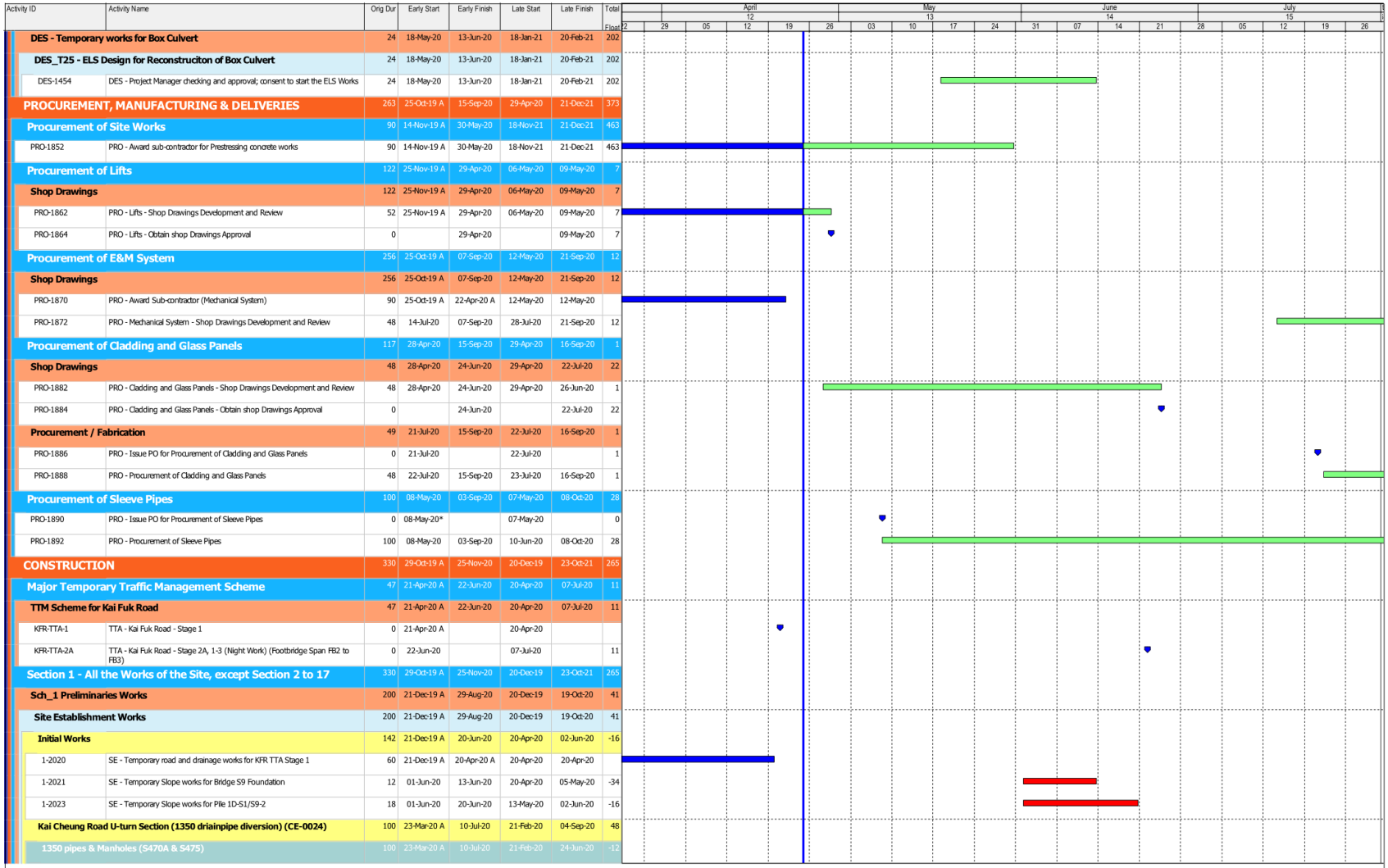

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DES - Temporary works for Box Culvert		24	18-May-20	13-Jun-20	18-Jan-21	20-Feb-21	202
DES_T25 - ELS Design for Reconstruciton of Box Culvert		24	18-May-20	13-Jun-20	18-Jan-21	20-Feb-21	202
DES-1454	DES - Project Manager checking and approval; consent to start the ELS Works	24	18-May-20	13-Jun-20	18-Jan-21	20-Feb-21	202
PROCUREMENT, MANUFACTURING & DELIVERIES		263	25-Oct-19 A	15-Sep-20	29-Apr-20	21-Dec-21	373
Procurement of Site Works		90	14-Nov-19 A	30-May-20	18-Nov-21	21-Dec-21	463
PRO-1852	PRO - Award sub-contractor for Prestressing concrete works	90	14-Nov-19 A	30-May-20	18-Nov-21	21-Dec-21	463
Procurement of Lifts		122	25-Nov-19 A	29-Apr-20	06-May-20	09-May-20	7
Shop Drawings		122	25-Nov-19 A	29-Apr-20	06-May-20	09-May-20	7
PRO-1862	PRO - Lifts - Shop Drawings Development and Review	52	25-Nov-19 A	29-Apr-20	06-May-20	09-May-20	7
PRO-1864	PRO - Lifts - Obtain shop Drawings Approval	0		29-Apr-20		09-May-20	7
Procurement of E&M System		256	25-Oct-19 A	07-Sep-20	12-May-20	21-Sep-20	12
Shop Drawings		256	25-Oct-19 A	07-Sep-20	12-May-20	21-Sep-20	12
PRO-1870	PRO - Award Sub-contractor (Mechanical System)	90	25-Oct-19 A	22-Apr-20 A	12-May-20	12-May-20	
PRO-1872	PRO - Mechanical System - Shop Drawings Development and Review	48	14-Jul-20	07-Sep-20	28-Jul-20	21-Sep-20	12
Procurement of Cladding and Glass Panels		117	28-Apr-20	15-Sep-20	29-Apr-20	16-Sep-20	1
Shop Drawings		48	28-Apr-20	24-Jun-20	29-Apr-20	22-Jul-20	22
PRO-1882	PRO - Cladding and Glass Panels - Shop Drawings Development and Review	48	28-Apr-20	24-Jun-20	29-Apr-20	26-Jun-20	1
PRO-1884	PRO - Cladding and Glass Panels - Obtain shop Drawings Approval	0		24-Jun-20		22-Jul-20	22
Procurement / Fabrication		49	21-Jul-20	15-Sep-20	22-Jul-20	16-Sep-20	1
PRO-1886	PRO - Issue PO for Procurement of Cladding and Glass Panels	0	21-Jul-20		22-Jul-20		1
PRO-1888	PRO - Procurement of Cladding and Glass Panels	48	22-Jul-20	15-Sep-20	23-Jul-20	16-Sep-20	1
Procurement of Sleeve Pipes		100	08-May-20	03-Sep-20	07-May-20	08-Oct-20	28
PRO-1890	PRO - Issue PO for Procurement of Sleeve Pipes	0	08-May-20*		07-May-20		0
PRO-1892	PRO - Procurement of Sleeve Pipes	100	08-May-20	03-Sep-20	10-Jun-20	08-Oct-20	28
CONSTRUCTION		330	29-Oct-19 A	25-Nov-20	20-Dec-19	23-Oct-21	265
Major Temporary Traffic Management Scheme		47	21-Apr-20 A	22-Jun-20	20-Apr-20	07-Jul-20	11
TTM Scheme for Kai Fuk Road		47	21-Apr-20 A	22-Jun-20	20-Apr-20	07-Jul-20	11
KFR-TTA-1	TTA - Kai Fuk Road - Stage 1	0	21-Apr-20 A		20-Apr-20		
KFR-TTA-2A	TTA - Kai Fuk Road - Stage 2A, 1-3 (Night Work) (Footbridge Span FB2 to FB3)	0	22-Jun-20		07-Jul-20		11
Section 1 - All the Works of the Site, except Section 2 to 17		330	29-Oct-19 A	25-Nov-20	20-Dec-19	23-Oct-21	265
Sch_1 Preliminaries Works		200	21-Dec-19 A	29-Aug-20	20-Dec-19	19-Oct-20	41
Site Establishment Works		200	21-Dec-19 A	29-Aug-20	20-Dec-19	19-Oct-20	41
Initial Works		142	21-Dec-19 A	20-Jun-20	20-Apr-20	02-Jun-20	-16
1-2020	SE - Temporary road and drainage works for KFR TTA Stage 1	60	21-Dec-19 A	20-Apr-20 A	20-Apr-20	20-Apr-20	
1-2021	SE - Temporary Slope works for Bridge S9 Foundation	12	01-Jun-20	13-Jun-20	20-Apr-20	05-May-20	-34
1-2023	SE - Temporary Slope works for Pile 1D-S1/S9-2	18	01-Jun-20	20-Jun-20	13-May-20	02-Jun-20	-16
Kai Cheung Road U-turn Section (1350 driainpipe diversion) (CE-0024)		100	23-Mar-20 A	10-Jul-20	21-Feb-20	04-Sep-20	48
1350 pipes & Manholes (S470A & S475)		100	23-Mar-20 A	10-Jul-20	21-Feb-20	24-Jun-20	-12

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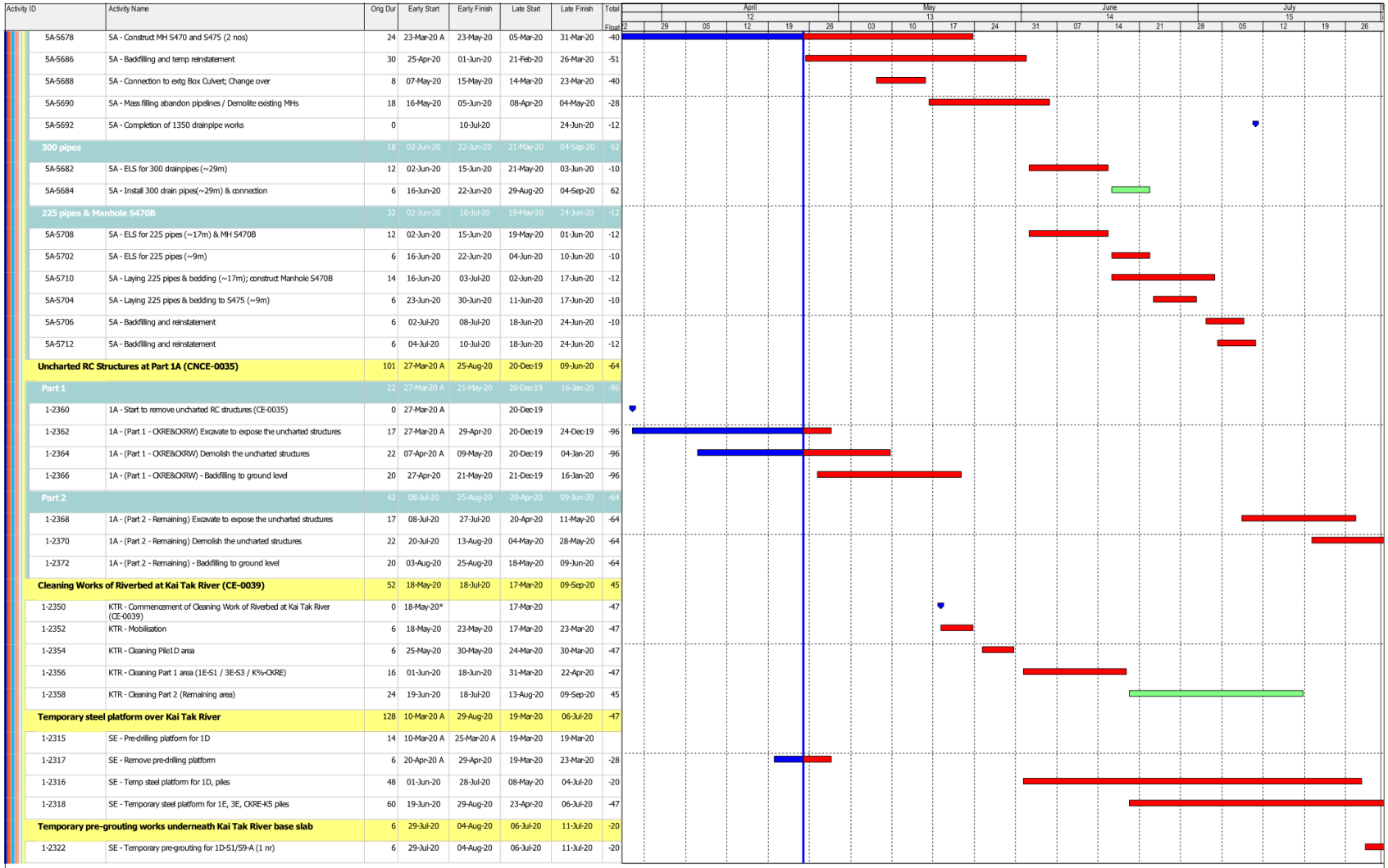

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5A-5678	5A - Construct MH S470 and S475 (2 nos)	24	23-Mar-20 A	23-May-20	05-Mar-20	31-Mar-20	-40
5A-5686	5A - Backfilling and temp reinstatement	30	25-Apr-20	01-Jun-20	21-Feb-20	26-Mar-20	-51
5A-5688	5A - Connection to extg Box Culvert; Change over	8	07-May-20	15-May-20	14-Mar-20	23-Mar-20	-40
5A-5690	5A - Mass filling abandon pipelines / Demolite existing MHs	18	16-May-20	05-Jun-20	08-Apr-20	04-May-20	-28
5A-5692	5A - Completion of 1350 drainpipe works	0		10-Jul-20		24-Jun-20	-12
300 pipes		18	02-Jun-20	22-Jun-20	21-May-20	04-Sep-20	62
5A-5682	5A - ELS for 300 drainpipes (~29m)	12	02-Jun-20	15-Jun-20	21-May-20	03-Jun-20	-10
5A-5684	5A - Install 300 drain pipes(~29m) & connection	6	16-Jun-20	22-Jun-20	29-Aug-20	04-Sep-20	62
225 pipes & Manhole S470B		32	02-Jun-20	10-Jul-20	19-May-20	24-Jun-20	-12
5A-5708	5A - ELS for 225 pipes (~17m) & MH S470B	12	02-Jun-20	15-Jun-20	19-May-20	01-Jun-20	-12
5A-5702	5A - ELS for 225 pipes (~9m)	6	16-Jun-20	22-Jun-20	04-Jun-20	10-Jun-20	-10
5A-5710	5A - Laying 225 pipes & bedding (~17m); construct Manhole S470B	14	16-Jun-20	03-Jul-20	02-Jun-20	17-Jun-20	-12
5A-5704	5A - Laying 225 pipes & bedding to S475 (~9m)	6	23-Jun-20	30-Jun-20	11-Jun-20	17-Jun-20	-10
5A-5706	5A - Backfilling and reinstatement	6	02-Jul-20	08-Jul-20	18-Jun-20	24-Jun-20	-10
5A-5712	5A - Backfilling and reinstatement	6	04-Jul-20	10-Jul-20	18-Jun-20	24-Jun-20	-12
Uncharted RC Structures at Part 1A (CNCE-0035)		101	27-Mar-20 A	25-Aug-20	20-Dec-19	09-Jun-20	-64
Part 1		22	27-Mar-20 A	21-May-20	20-Dec-19	16-Jan-20	-96
1-2360	1A - Start to remove uncharted RC structures (CE-0035)	0	27-Mar-20 A		20-Dec-19		
1-2362	1A - (Part 1 - CKRE&CKRW) Excavate to expose the uncharted structures	17	27-Mar-20 A	29-Apr-20	20-Dec-19	24-Dec-19	-96
1-2364	1A - (Part 1 - CKRE&CKRW) Demolish the uncharted structures	22	07-Apr-20 A	09-May-20	20-Dec-19	04-Jan-20	-96
1-2366	1A - (Part 1 - CKRE&CKRW) - Backfilling to ground level	20	27-Apr-20	21-May-20	21-Dec-19	16-Jan-20	-96
Part 2		42	08-Jul-20	25-Aug-20	20-Apr-20	09-Jun-20	-64
1-2368	1A - (Part 2 - Remaining) Excavate to expose the uncharted structures	17	08-Jul-20	27-Jul-20	20-Apr-20	11-May-20	-64
1-2370	1A - (Part 2 - Remaining) Demolish the uncharted structures	22	20-Jul-20	13-Aug-20	04-May-20	28-May-20	-64
1-2372	1A - (Part 2 - Remaining) - Backfilling to ground level	20	03-Aug-20	25-Aug-20	18-May-20	09-Jun-20	-64
Cleaning Works of Riverbed at Kai Tak River (CE-0039)		52	18-May-20	18-Jul-20	17-Mar-20	09-Sep-20	45
1-2350	KTR - Commencement of Cleaning Work of Riverbed at Kai Tak River (CE-0039)	0	18-May-20*		17-Mar-20		-47
1-2352	KTR - Mobilisation	6	18-May-20	23-May-20	17-Mar-20	23-Mar-20	-47
1-2354	KTR - Cleaning Pile1D area	6	25-May-20	30-May-20	24-Mar-20	30-Mar-20	-47
1-2356	KTR - Cleaning Part 1 area (1E-S1 / 3E-S3 / K%-CKRE)	16	01-Jun-20	18-Jun-20	31-Mar-20	22-Apr-20	-47
1-2358	KTR - Cleaning Part 2 (Remaining area)	24	19-Jun-20	18-Jul-20	13-Aug-20	09-Sep-20	45
Temporary steel platform over Kai Tak River		128	10-Mar-20 A	29-Aug-20	19-Mar-20	06-Jul-20	-47
1-2315	SE - Pre-drilling platform for 1D	14	10-Mar-20 A	25-Mar-20 A	19-Mar-20	19-Mar-20	
1-2317	SE - Remove pre-drilling platform	6	20-Apr-20 A	29-Apr-20	19-Mar-20	23-Mar-20	-28
1-2316	SE - Temp steel platform for 1D, piles	48	01-Jun-20	28-Jul-20	08-May-20	04-Jul-20	-20
1-2318	SE - Temporary steel platform for 1E, 3E, CKRE-K5 piles	60	19-Jun-20	29-Aug-20	23-Apr-20	06-Jul-20	-47
Temporary pre-grouting works underneath Kai Tak River base slab		6	29-Jul-20	04-Aug-20	06-Jul-20	11-Jul-20	-20
1-2322	SE - Temporary pre-grouting for 1D-S1/S9-A (1 nr)	6	29-Jul-20	04-Aug-20	06-Jul-20	11-Jul-20	-20

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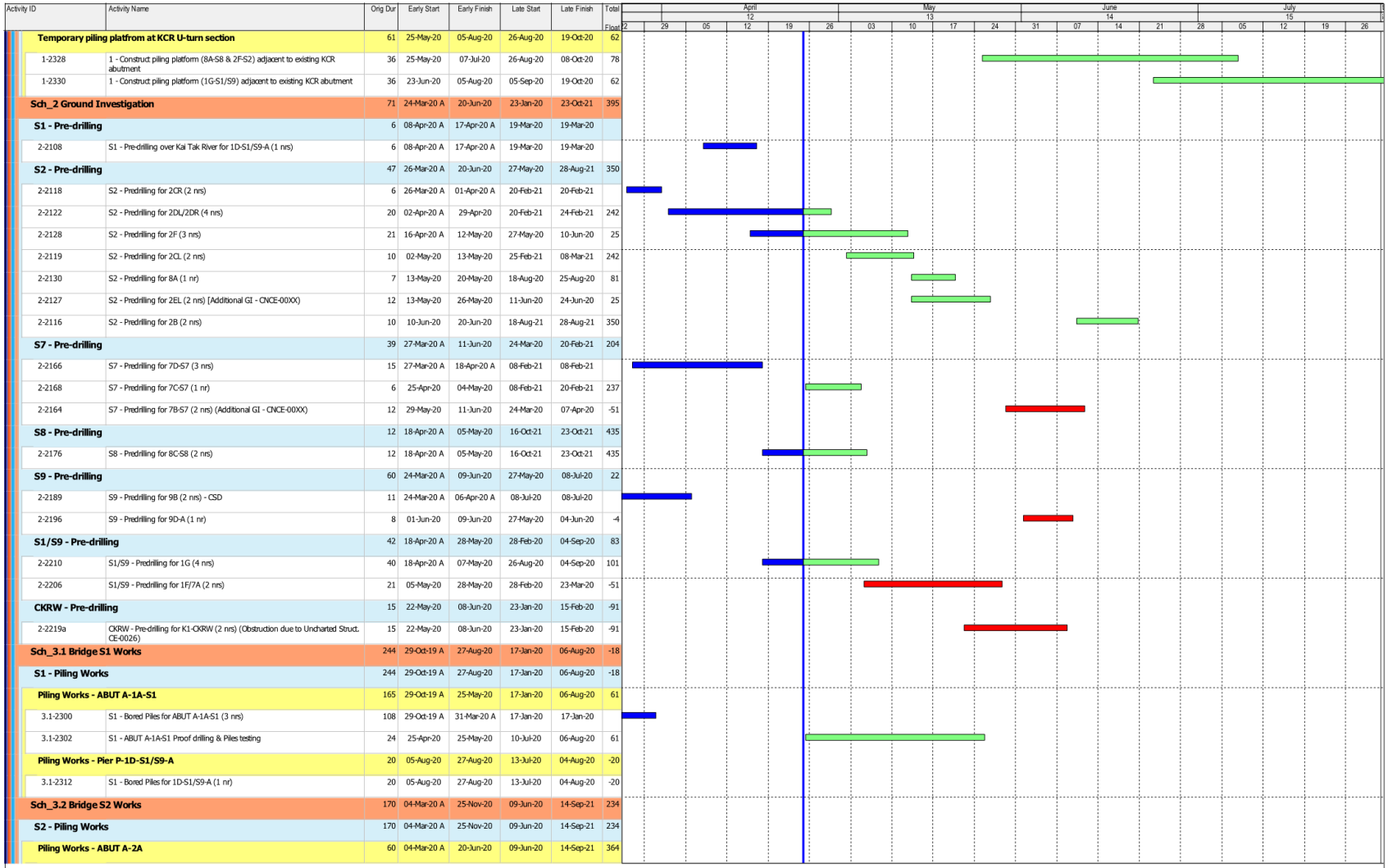

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Temporary piling platfrom at KCR U-turn section		61	25-May-20	05-Aug-20	26-Aug-20	19-Oct-20	62
1-2328	1 - Construct piling platform (8A-S8 & 2F-S2) adjacent to existing KCR abutment	36	25-May-20	07-Jul-20	26-Aug-20	08-Oct-20	78
1-2330	1 - Construct piling platform (1G-S1/S9) adjacent to existing KCR abutment	36	23-Jun-20	05-Aug-20	05-Sep-20	19-Oct-20	62
Sch_2 Ground Investigation		71	24-Mar-20 A	20-Jun-20	23-Jan-20	23-Oct-21	395
S1 - Pre-drilling		6	08-Apr-20 A	17-Apr-20 A	19-Mar-20	19-Mar-20	
2-2108	S1 - Pre-drilling over Kai Tak River for 1D-S1/S9-A (1 nrs)	6	08-Apr-20 A	17-Apr-20 A	19-Mar-20	19-Mar-20	
S2 - Pre-drilling		47	26-Mar-20 A	20-Jun-20	27-May-20	28-Aug-21	350
2-2118	S2 - Predrilling for 2CR (2 nrs)	6	26-Mar-20 A	01-Apr-20 A	20-Feb-21	20-Feb-21	
2-2122	S2 - Predrilling for 2DL/2DR (4 nrs)	20	02-Apr-20 A	29-Apr-20	20-Feb-21	24-Feb-21	242
2-2128	S2 - Predrilling for 2F (3 nrs)	21	16-Apr-20 A	12-May-20	27-May-20	10-Jun-20	25
2-2119	S2 - Predrilling for 2CL (2 nrs)	10	02-May-20	13-May-20	25-Feb-21	08-Mar-21	242
2-2130	S2 - Predrilling for 8A (1 nr)	7	13-May-20	20-May-20	18-Aug-20	25-Aug-20	81
2-2127	S2 - Predrilling for 2EL (2 nrs) [Additional GI - CNCE-00XX)	12	13-May-20	26-May-20	11-Jun-20	24-Jun-20	25
2-2116	S2 - Predrilling for 2B (2 nrs)	10	10-Jun-20	20-Jun-20	18-Aug-21	28-Aug-21	350
S7 - Pre-drilling		39	27-Mar-20 A	11-Jun-20	24-Mar-20	20-Feb-21	204
2-2166	S7 - Predrilling for 7D-S7 (3 nrs)	15	27-Mar-20 A	18-Apr-20 A	08-Feb-21	08-Feb-21	
2-2168	S7 - Predrilling for 7C-S7 (1 nr)	6	25-Apr-20	04-May-20	08-Feb-21	20-Feb-21	237
2-2164	S7 - Predrilling for 7B-S7 (2 nrs) (Additional GI - CNCE-00XX)	12	29-May-20	11-Jun-20	24-Mar-20	07-Apr-20	-51
S8 - Pre-drilling		12	18-Apr-20 A	05-May-20	16-Oct-21	23-Oct-21	435
2-2176	S8 - Predrilling for 8C-S8 (2 nrs)	12	18-Apr-20 A	05-May-20	16-Oct-21	23-Oct-21	435
S9 - Pre-drilling		60	24-Mar-20 A	09-Jun-20	27-May-20	08-Jul-20	22
2-2189	S9 - Predrilling for 9B (2 nrs) - CSD	11	24-Mar-20 A	06-Apr-20 A	08-Jul-20	08-Jul-20	
2-2196	S9 - Predrilling for 9D-A (1 nr)	8	01-Jun-20	09-Jun-20	27-May-20	04-Jun-20	-4
S1/S9 - Pre-drilling		42	18-Apr-20 A	28-May-20	28-Feb-20	04-Sep-20	83
2-2210	S1/S9 - Predrilling for 1G (4 nrs)	40	18-Apr-20 A	07-May-20	26-Aug-20	04-Sep-20	101
2-2206	S1/S9 - Predrilling for 1F/7A (2 nrs)	21	05-May-20	28-May-20	28-Feb-20	23-Mar-20	-51
CKRW - Pre-drilling		15	22-May-20	08-Jun-20	23-Jan-20	15-Feb-20	-91
2-2219a	CKRW - Pre-drilling for K1-CKRW (2 nrs) (Obstruction due to Uncharted Struct. CE-0026)	15	22-May-20	08-Jun-20	23-Jan-20	15-Feb-20	-91
Sch_3.1 Bridge S1 Works		244	29-Oct-19 A	27-Aug-20	17-Jan-20	06-Aug-20	-18
S1 - Piling Works		244	29-Oct-19 A	27-Aug-20	17-Jan-20	06-Aug-20	-18
Piling Works - ABUT A-1A-S1		165	29-Oct-19 A	25-May-20	17-Jan-20	06-Aug-20	61
3.1-2300	S1 - Bored Piles for ABUT A-1A-S1 (3 nrs)	108	29-Oct-19 A	31-Mar-20 A	17-Jan-20	17-Jan-20	
3.1-2302	S1 - ABUT A-1A-S1 Proof drilling & Piles testing	24	25-Apr-20	25-May-20	10-Jul-20	06-Aug-20	61
Piling Works - Pier P-1D-S1/S9-A		20	05-Aug-20	27-Aug-20	13-Jul-20	04-Aug-20	-20
3.1-2312	S1 - Bored Piles for 1D-S1/S9-A (1 nr)	20	05-Aug-20	27-Aug-20	13-Jul-20	04-Aug-20	-20
Sch_3.2 Bridge S2 Works		170	04-Mar-20 A	25-Nov-20	09-Jun-20	14-Sep-21	234
S2 - Piling Works		170	04-Mar-20 A	25-Nov-20	09-Jun-20	14-Sep-21	234
Piling Works - ABUT A-2A		60	04-Mar-20 A	20-Jun-20	09-Jun-20	14-Sep-21	364

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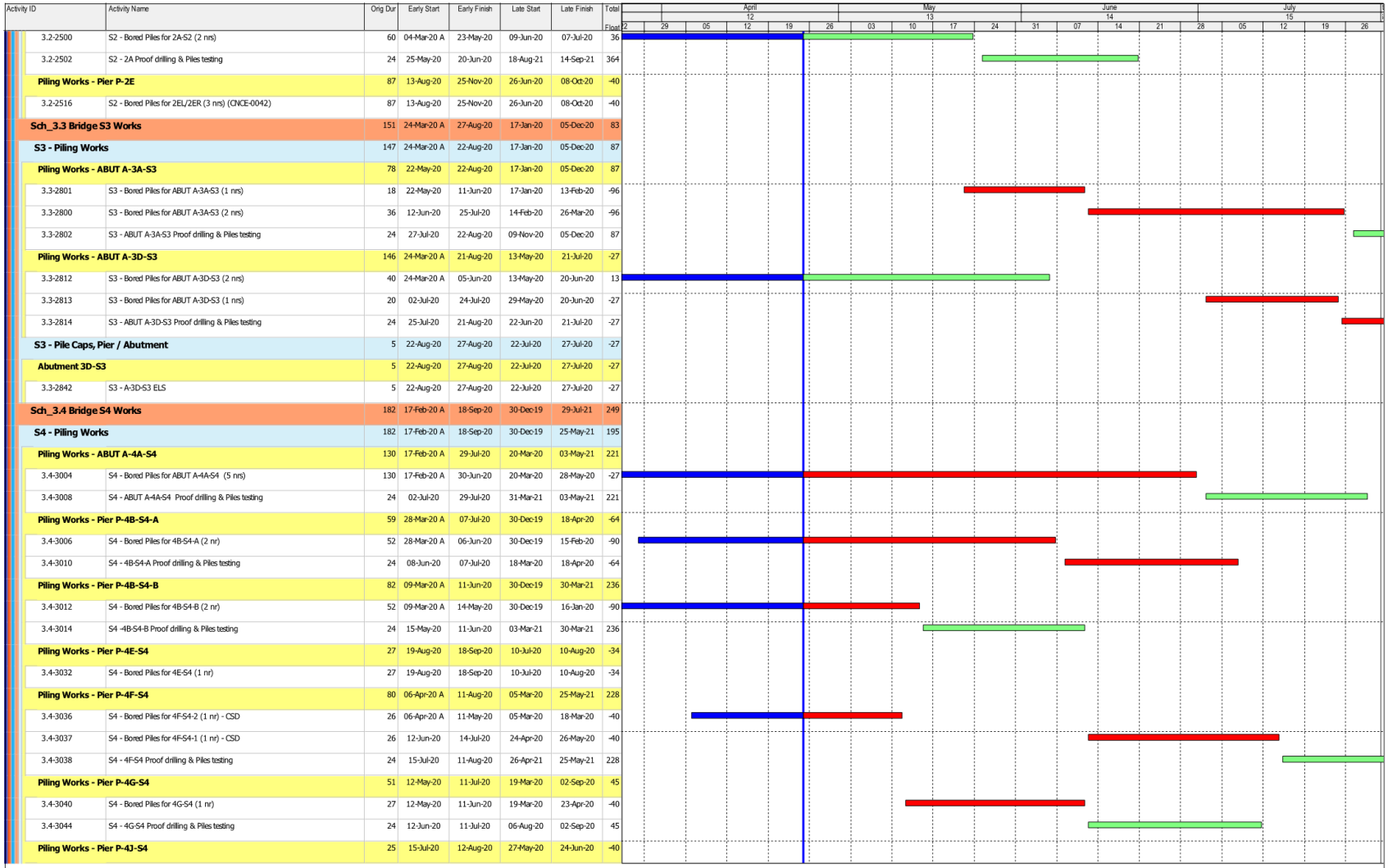

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3.2-2500	S2 - Bored Piles for 2A-S2 (2 nrs)	60	04-Mar-20 A	23-May-20	09-Jun-20	07-Jul-20	36
3.2-2502	S2 - 2A Proof drilling & Piles testing	24	25-May-20	20-Jun-20	18-Aug-21	14-Sep-21	364
Piling Works - Pier P-2E		87	13-Aug-20	25-Nov-20	26-Jun-20	08-Oct-20	-40
3.2-2516	S2 - Bored Piles for 2EL/2ER (3 nrs) (CNCE-0042)	87	13-Aug-20	25-Nov-20	26-Jun-20	08-Oct-20	-40
Sch_3.3 Bridge S3 Works		151	24-Mar-20 A	27-Aug-20	17-Jan-20	05-Dec-20	83
S3 - Piling Works		147	24-Mar-20 A	22-Aug-20	17-Jan-20	05-Dec-20	87
Piling Works - ABUT A-3A-S3		78	22-May-20	22-Aug-20	17-Jan-20	05-Dec-20	87
3.3-2801	S3 - Bored Piles for ABUT A-3A-S3 (1 nrs)	18	22-May-20	11-Jun-20	17-Jan-20	13-Feb-20	-96
3.3-2800	S3 - Bored Piles for ABUT A-3A-S3 (2 nrs)	36	12-Jun-20	25-Jul-20	14-Feb-20	26-Mar-20	-96
3.3-2802	S3 - ABUT A-3A-S3 Proof drilling & Piles testing	24	27-Jul-20	22-Aug-20	09-Nov-20	05-Dec-20	87
Piling Works - ABUT A-3D-S3		146	24-Mar-20 A	21-Aug-20	13-May-20	21-Jul-20	-27
3.3-2812	S3 - Bored Piles for ABUT A-3D-S3 (2 nrs)	40	24-Mar-20 A	05-Jun-20	13-May-20	20-Jun-20	13
3.3-2813	S3 - Bored Piles for ABUT A-3D-S3 (1 nrs)	20	02-Jul-20	24-Jul-20	29-May-20	20-Jun-20	-27
3.3-2814	S3 - ABUT A-3D-S3 Proof drilling & Piles testing	24	25-Jul-20	21-Aug-20	22-Jun-20	21-Jul-20	-27
S3 - Pile Caps, Pier / Abutment		5	22-Aug-20	27-Aug-20	22-Jul-20	27-Jul-20	-27
Abutment 3D-S3		5	22-Aug-20	27-Aug-20	22-Jul-20	27-Jul-20	-27
3.3-2842	S3 - A-3D-S3 ELS	5	22-Aug-20	27-Aug-20	22-Jul-20	27-Jul-20	-27
Sch_3.4 Bridge S4 Works		182	17-Feb-20 A	18-Sep-20	30-Dec-19	29-Jul-21	249
S4 - Piling Works		182	17-Feb-20 A	18-Sep-20	30-Dec-19	25-May-21	195
Piling Works - ABUT A-4A-S4		130	17-Feb-20 A	29-Jul-20	20-Mar-20	03-May-21	221
3.4-3004	S4 - Bored Piles for ABUT A-4A-S4 (5 nrs)	130	17-Feb-20 A	30-Jun-20	20-Mar-20	28-May-20	-27
3.4-3008	S4 - ABUT A-4A-S4 Proof drilling & Piles testing	24	02-Jul-20	29-Jul-20	31-Mar-21	03-May-21	221
Piling Works - Pier P-4B-S4-A		59	28-Mar-20 A	07-Jul-20	30-Dec-19	18-Apr-20	-64
3.4-3006	S4 - Bored Piles for 4B-S4-A (2 nr)	52	28-Mar-20 A	06-Jun-20	30-Dec-19	15-Feb-20	-90
3.4-3010	S4 - 4B-S4-A Proof drilling & Piles testing	24	08-Jun-20	07-Jul-20	18-Mar-20	18-Apr-20	-64
Piling Works - Pier P-4B-S4-B		82	09-Mar-20 A	11-Jun-20	30-Dec-19	30-Mar-21	236
3.4-3012	S4 - Bored Piles for 4B-S4-B (2 nr)	52	09-Mar-20 A	14-May-20	30-Dec-19	16-Jan-20	-90
3.4-3014	S4 -4B-S4-B Proof drilling & Piles testing	24	15-May-20	11-Jun-20	03-Mar-21	30-Mar-21	236
Piling Works - Pier P-4E-S4		27	19-Aug-20	18-Sep-20	10-Jul-20	10-Aug-20	-34
3.4-3032	S4 - Bored Piles for 4E-S4 (1 nr)	27	19-Aug-20	18-Sep-20	10-Jul-20	10-Aug-20	-34
Piling Works - Pier P-4F-S4		80	06-Apr-20 A	11-Aug-20	05-Mar-20	25-May-21	228
3.4-3036	S4 - Bored Piles for 4F-S4-2 (1 nr) - CSD	26	06-Apr-20 A	11-May-20	05-Mar-20	18-Mar-20	-40
3.4-3037	S4 - Bored Piles for 4F-S4-1 (1 nr) - CSD	26	12-Jun-20	14-Jul-20	24-Apr-20	26-May-20	-40
3.4-3038	S4 - 4F-S4 Proof drilling & Piles testing	24	15-Jul-20	11-Aug-20	26-Apr-21	25-May-21	228
Piling Works - Pier P-4G-S4		51	12-May-20	11-Jul-20	19-Mar-20	02-Sep-20	45
3.4-3040	S4 - Bored Piles for 4G-S4 (1 nr)	27	12-May-20	11-Jun-20	19-Mar-20	23-Apr-20	-40
3.4-3044	S4 - 4G-S4 Proof drilling & Piles testing	24	12-Jun-20	11-Jul-20	06-Aug-20	02-Sep-20	45
Piling Works - Pier P-4J-S4		25	15-Jul-20	12-Aug-20	27-May-20	24-Jun-20	-40

April 12 | May 13 | June 14 | July 15

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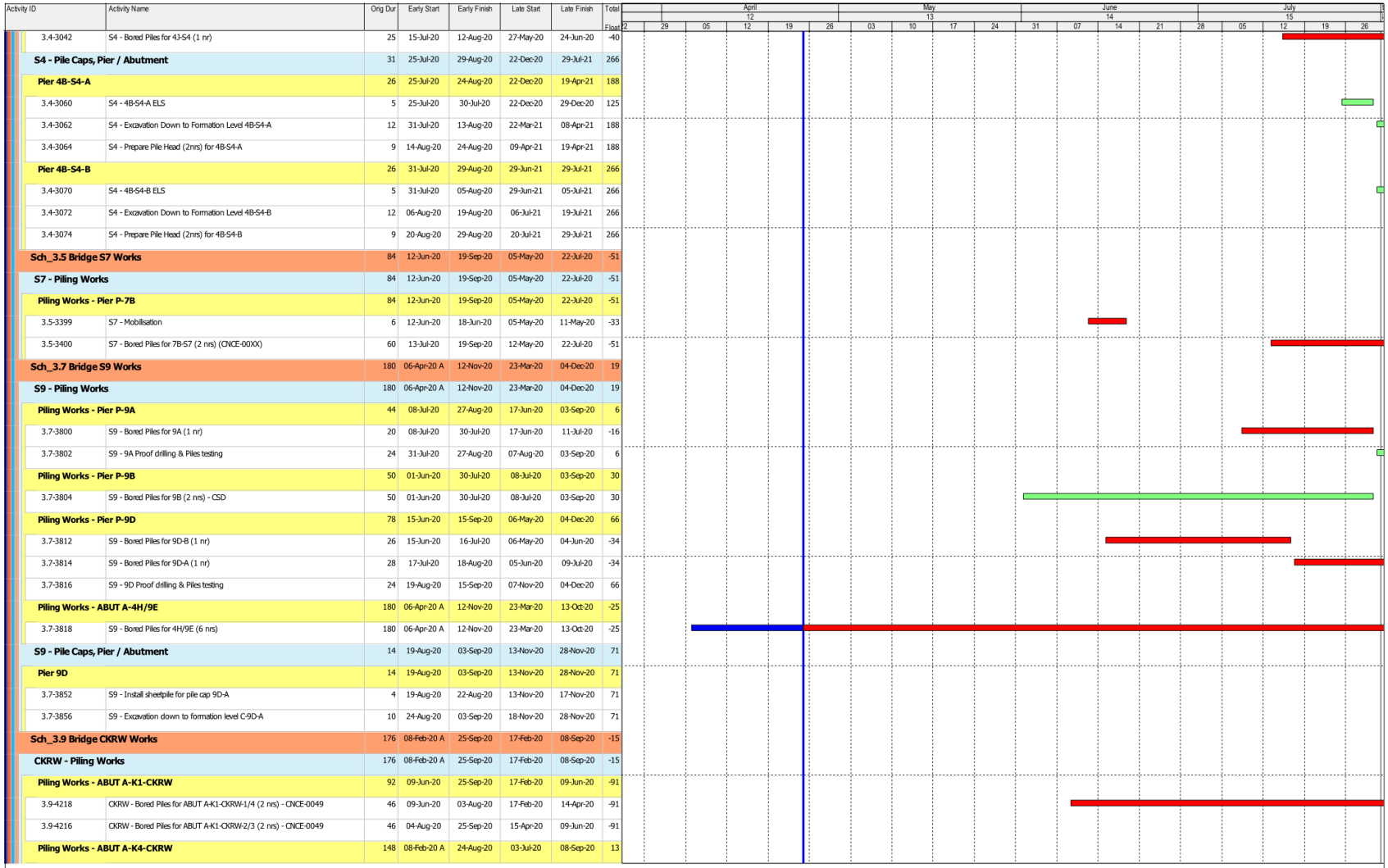

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3.4-3042	S4 - Bored Piles for 4J-S4 (1 nr)	25	15-Jul-20	12-Aug-20	27-May-20	24-Jun-20	-40
S4 - Pile Caps, Pier / Abutment		31	25-Jul-20	29-Aug-20	22-Dec-20	29-Jul-21	266
Pier 4B-S4-A		26	25-Jul-20	24-Aug-20	22-Dec-20	19-Apr-21	188
3.4-3060	S4 - 4B-S4-A ELS	5	25-Jul-20	30-Jul-20	22-Dec-20	29-Dec-20	125
3.4-3062	S4 - Excavation Down to Formation Level 4B-S4-A	12	31-Jul-20	13-Aug-20	22-Mar-21	08-Apr-21	188
3.4-3064	S4 - Prepare Pile Head (2nrs) for 4B-S4-A	9	14-Aug-20	24-Aug-20	09-Apr-21	19-Apr-21	188
Pier 4B-S4-B		26	31-Jul-20	29-Aug-20	29-Jun-21	29-Jul-21	266
3.4-3070	S4 - 4B-S4-B ELS	5	31-Jul-20	05-Aug-20	29-Jun-21	05-Jul-21	266
3.4-3072	S4 - Excavation Down to Formation Level 4B-S4-B	12	06-Aug-20	19-Aug-20	06-Jul-21	19-Jul-21	266
3.4-3074	S4 - Prepare Pile Head (2nrs) for 4B-S4-B	9	20-Aug-20	29-Aug-20	20-Jul-21	29-Jul-21	266
Sch_3.5 Bridge S7 Works		84	12-Jun-20	19-Sep-20	05-May-20	22-Jul-20	-51
S7 - Piling Works		84	12-Jun-20	19-Sep-20	05-May-20	22-Jul-20	-51
Piling Works - Pier P-7B		84	12-Jun-20	19-Sep-20	05-May-20	22-Jul-20	-51
3.5-3399	S7 - Mobilisation	6	12-Jun-20	18-Jun-20	05-May-20	11-May-20	-33
3.5-3400	S7 - Bored Piles for 7B-S7 (2 nrs) (CNCE-00XX)	60	13-Jul-20	19-Sep-20	12-May-20	22-Jul-20	-51
Sch_3.7 Bridge S9 Works		180	06-Apr-20 A	12-Nov-20	23-Mar-20	04-Dec-20	19
S9 - Piling Works		180	06-Apr-20 A	12-Nov-20	23-Mar-20	04-Dec-20	19
Piling Works - Pier P-9A		44	08-Jul-20	27-Aug-20	17-Jun-20	03-Sep-20	6
3.7-3800	S9 - Bored Piles for 9A (1 nr)	20	08-Jul-20	30-Jul-20	17-Jun-20	11-Jul-20	-16
3.7-3802	S9 - 9A Proof drilling & Piles testing	24	31-Jul-20	27-Aug-20	07-Aug-20	03-Sep-20	6
Piling Works - Pier P-9B		50	01-Jun-20	30-Jul-20	08-Jul-20	03-Sep-20	30
3.7-3804	S9 - Bored Piles for 9B (2 nrs) - CSD	50	01-Jun-20	30-Jul-20	08-Jul-20	03-Sep-20	30
Piling Works - Pier P-9D		78	15-Jun-20	15-Sep-20	06-May-20	04-Dec-20	66
3.7-3812	S9 - Bored Piles for 9D-B (1 nr)	26	15-Jun-20	16-Jul-20	06-May-20	04-Jun-20	-34
3.7-3814	S9 - Bored Piles for 9D-A (1 nr)	28	17-Jul-20	18-Aug-20	05-Jun-20	09-Jul-20	-34
3.7-3816	S9 - 9D Proof drilling & Piles testing	24	19-Aug-20	15-Sep-20	07-Nov-20	04-Dec-20	66
Piling Works - ABUT A-4H/9E		180	06-Apr-20 A	12-Nov-20	23-Mar-20	13-Oct-20	-25
3.7-3818	S9 - Bored Piles for 4H/9E (6 nrs)	180	06-Apr-20 A	12-Nov-20	23-Mar-20	13-Oct-20	-25
S9 - Pile Caps, Pier / Abutment		14	19-Aug-20	03-Sep-20	13-Nov-20	28-Nov-20	71
Pier 9D		14	19-Aug-20	03-Sep-20	13-Nov-20	28-Nov-20	71
3.7-3852	S9 - Install sheetpile for pile cap 9D-A	4	19-Aug-20	22-Aug-20	13-Nov-20	17-Nov-20	71
3.7-3856	S9 - Excavation down to formation level C-9D-A	10	24-Aug-20	03-Sep-20	18-Nov-20	28-Nov-20	71
Sch_3.9 Bridge CKRW Works		176	08-Feb-20 A	25-Sep-20	17-Feb-20	08-Sep-20	-15
CKRW - Piling Works		176	08-Feb-20 A	25-Sep-20	17-Feb-20	08-Sep-20	-15
Piling Works - ABUT A-K1-CKRW		92	09-Jun-20	25-Sep-20	17-Feb-20	09-Jun-20	-91
3.9-4218	CKRW - Bored Piles for ABUT A-K1-CKRW-1/4 (2 nrs) - CNCE-0049	46	09-Jun-20	03-Aug-20	17-Feb-20	14-Apr-20	-91
3.9-4216	CKRW - Bored Piles for ABUT A-K1-CKRW-2/3 (2 nrs) - CNCE-0049	46	04-Aug-20	25-Sep-20	15-Apr-20	09-Jun-20	-91
Piling Works - ABUT A-K4-CKRW		148	08-Feb-20 A	24-Aug-20	03-Jul-20	08-Sep-20	13

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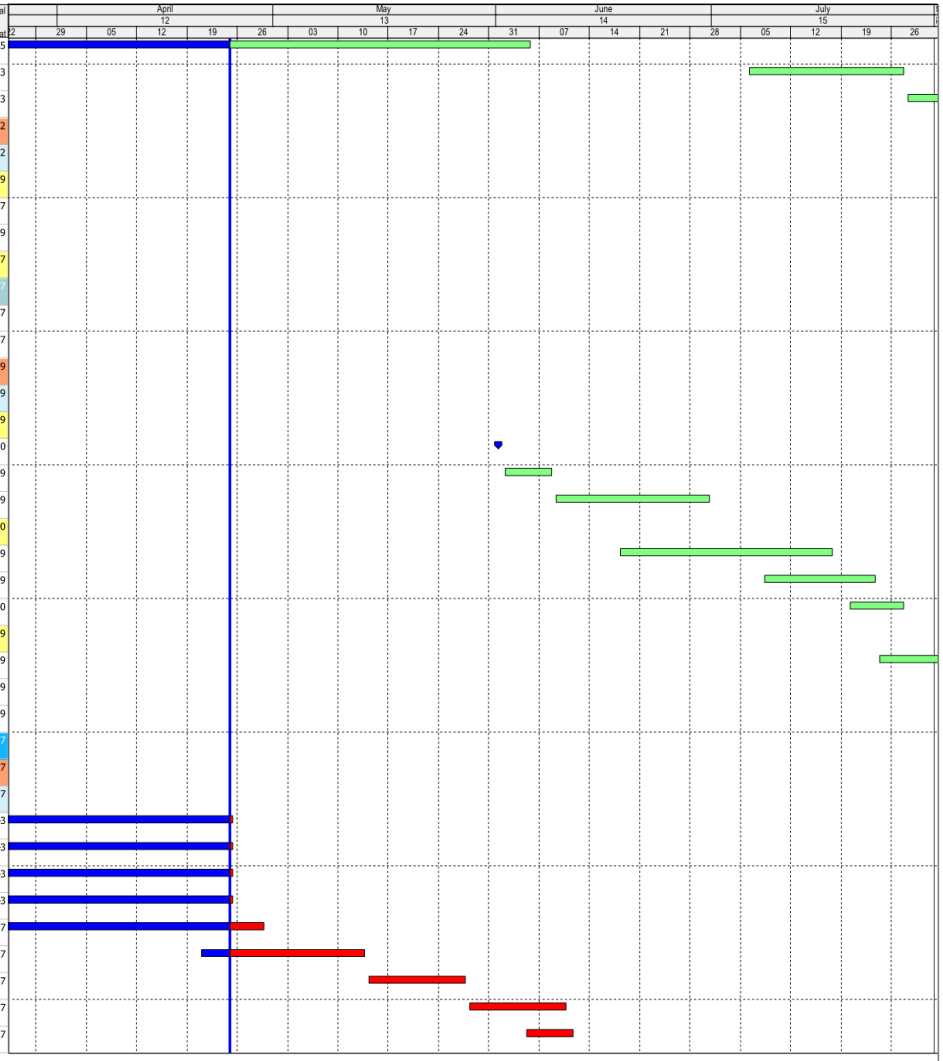
3.9-4222	CKRW - Bored Piles for ABUT A-K4-CKRW (3 nrs)	57	08-Feb-20 A	05-Jun-20	03-Jul-20	11-Aug-20	55
3.9-4224	CKRW - Bored Piles for ABUT A-K4-CKRW (1 nr)	19	06-Jul-20	27-Jul-20	21-Jul-20	11-Aug-20	13
3.9-4226	CKRW - ABUT A-K4-CKRW Proof drilling & Piles testing	24	28-Jul-20	24-Aug-20	12-Aug-20	08-Sep-20	13
Sch_5A Retaining Walls and At-grade Road Works		28	03-Aug-20	03-Sep-20	15-Sep-20	30-Nov-20	72
Retaining Walls		28	03-Aug-20	03-Sep-20	15-Sep-20	30-Nov-20	72
RW-S4		21	03-Aug-20	26-Aug-20	15-Sep-20	30-Nov-20	79
5A-5136	RW-S4 - Excavation down to formation level +3.6/+4.0 (After complete of C-SB-2)	7	03-Aug-20	10-Aug-20	15-Sep-20	22-Sep-20	37
5A-5138	RW-S4 - Plate Load Test and Report	14	11-Aug-20	26-Aug-20	14-Nov-20	30-Nov-20	79
RW-S9		21	11-Aug-20	03-Sep-20	23-Sep-20	19-Oct-20	37
Stage 1		21	11-Aug-20	03-Sep-20	23-Sep-20	19-Oct-20	37
5A-5284	RW-S9 - Excavation down to formation level +4.3/+4.8	7	11-Aug-20	18-Aug-20	23-Sep-20	30-Sep-20	37
5A-5286	RW-S9 - Plate Load Test and Report	14	19-Aug-20	03-Sep-20	03-Oct-20	19-Oct-20	37
SCH_6B Re-construction of Existing Box Culvert		79	01-Jun-20	02-Sep-20	01-Jun-20	12-May-21	199
Box Culvert re-construction Works		79	01-Jun-20	02-Sep-20	01-Jun-20	12-May-21	199
Stage 1		25	01-Jun-20	30-Jun-20	01-Jun-20	04-Mar-21	199
6B-5700	BC - Commence Box Culvert re-construction works	0	01-Jun-20*		01-Jun-20		0
6B-5714	BC- Excavate to expose the top slab of the existing box culvert	6	02-Jun-20	08-Jun-20	29-Jan-21	04-Feb-21	199
6B-5716	BC - Remove top slab (increase drainage cross sectional area, avoid confined space limitation)	18	09-Jun-20	30-Jun-20	05-Feb-21	04-Mar-21	199
Stage 2		32	18-Jun-20	27-Jul-20	22-Feb-21	31-Mar-21	200
6B-5718	BC - Construct temp drainage channel and expose outer walls of the existing box culvert	24	18-Jun-20	17-Jul-20	22-Feb-21	20-Mar-21	199
6B-5720	BC - Demolish the existing walls of the End Portions at Upstream and Downstream	14	08-Jul-20	23-Jul-20	11-Mar-21	26-Mar-21	199
6B-5722	BC - Divert existing box culvert to the temp drainage channel	7	20-Jul-20	27-Jul-20	24-Mar-21	31-Mar-21	200
Stage 3		35	24-Jul-20	02-Sep-20	27-Mar-21	12-May-21	199
6B-5724	BC - Erect the bulkhead walls for the 2nd and 3rd cells at both ends of the Main Portion	14	24-Jul-20	08-Aug-20	27-Mar-21	16-Apr-21	199
6B-5726	BC - Demolish base slabs and walls	7	10-Aug-20	17-Aug-20	17-Apr-21	24-Apr-21	199
6B-5728	BC - Plate Load Test and Reporting	14	18-Aug-20	02-Sep-20	26-Apr-21	12-May-21	199
Section 3 - Wang Kwong Road Junction Improvement Works		150	08-Feb-20 A	27-Aug-20	01-Apr-20	07-Aug-20	-17
SCH_5D Wang Kwong Road Junction Improvement Works		150	08-Feb-20 A	27-Aug-20	01-Apr-20	07-Aug-20	-17
TTM Stage 2a-2c (WKR/LHS Junction - Kellett School)		90	08-Feb-20 A	16-Jun-20	01-Apr-20	27-May-20	-17
5D-5964	WKR-Stage 2-1 - UU parties draw pit and cable realignment works - HKTC	6	08-Feb-20 A	25-Apr-20	21-Apr-20	21-Apr-20	-3
5D-5966	WKR-Stage 2-1 - UU parties draw pit and cable realignment works - WTT	18	08-Feb-20 A	25-Apr-20	21-Apr-20	21-Apr-20	-3
5D-5968	WKR-Stage 2-1 - UU parties draw pit and cable realignment works - HGC	18	08-Feb-20 A	25-Apr-20	21-Apr-20	21-Apr-20	-3
5D-5970	WKR-Stage 2-1 - UU parties draw pit and cable realignment works - NWT	18	08-Feb-20 A	25-Apr-20	21-Apr-20	21-Apr-20	-3
5D-5962	WKR-Stage 2-1 - UU parties draw pit and cable realignment works - CLP (CNCE-0055)	18	23-Mar-20 A	29-Apr-20	01-Apr-20	06-Apr-20	-17
5D-5963	WKR-Stage 2-1 - WSD Salt water Main Diversion (CNCE-0055)	18	21-Apr-20 A	13-May-20	01-Apr-20	21-Apr-20	-17
5D-5972	WKR-Stage2-1 - Relocation of Gully	12	14-May-20	27-May-20	22-Apr-20	07-May-20	-17
5D-5974	WKR-Stage2-1 - Road kerb installation	12	28-May-20	10-Jun-20	08-May-20	21-May-20	-17
5D-5976	WKR-Stage2-1 - Traffic light / Sign post installation	6	05-Jun-20	11-Jun-20	16-May-20	22-May-20	-17



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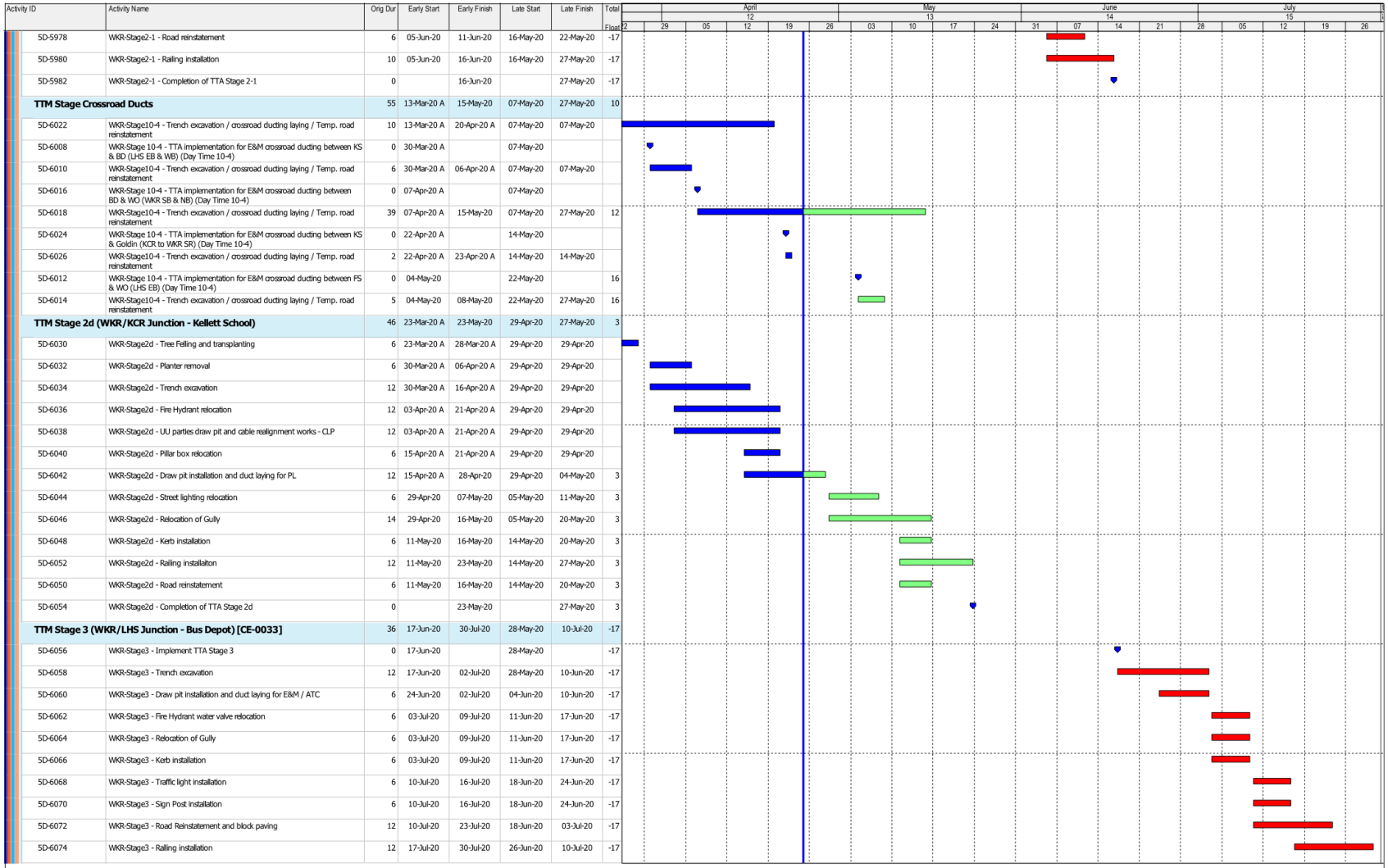

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5D-5978	WKR-Stage2-1 - Road reinstatement	6	05-Jun-20	11-Jun-20	16-May-20	22-May-20	-17
5D-5980	WKR-Stage2-1 - Railing installation	10	05-Jun-20	16-Jun-20	16-May-20	27-May-20	-17
5D-5982	WKR-Stage2-1 - Completion of TTA Stage 2-1	0		16-Jun-20		27-May-20	-17
TTM Stage Crossroad Ducts		55	13-Mar-20 A	15-May-20	07-May-20	27-May-20	10
5D-6022	WKR-Stage10-4 - Trench excavation / crossroad ducting laying / Temp. road reinstatement	10	13-Mar-20 A	20-Apr-20 A	07-May-20	07-May-20	
5D-6008	WKR-Stage 10-4 - TTA implementation for E&M crossroad ducting between KS & BD (LHS EB & WB) (Day Time 10-4)	0	30-Mar-20 A		07-May-20		
5D-6010	WKR-Stage10-4 - Trench excavation / crossroad ducting laying / Temp. road reinstatement	6	30-Mar-20 A	06-Apr-20 A	07-May-20	07-May-20	
5D-6016	WKR-Stage 10-4 - TTA implementation for E&M crossroad ducting between BD & WO (WKR SB & NB) (Day Time 10-4)	0	07-Apr-20 A		07-May-20		
5D-6018	WKR-Stage10-4 - Trench excavation / crossroad ducting laying / Temp. road reinstatement	39	07-Apr-20 A	15-May-20	07-May-20	27-May-20	12
5D-6024	WKR-Stage 10-4 - TTA implementation for E&M crossroad ducting between KS & Goldin (KCR to WKR SR) (Day Time 10-4)	0	22-Apr-20 A		14-May-20		
5D-6026	WKR-Stage10-4 - Trench excavation / crossroad ducting laying / Temp. road reinstatement	2	22-Apr-20 A	23-Apr-20 A	14-May-20	14-May-20	
5D-6012	WKR-Stage 10-4 - TTA implementation for E&M crossroad ducting between FS & WO (LHS EB) (Day Time 10-4)	0	04-May-20		22-May-20		16
5D-6014	WKR-Stage10-4 - Trench excavation / crossroad ducting laying / Temp. road reinstatement	5	04-May-20	08-May-20	22-May-20	27-May-20	16
TTM Stage 2d (WKR/KCR Junction - Kellett School)		46	23-Mar-20 A	23-May-20	29-Apr-20	27-May-20	3
5D-6030	WKR-Stage2d - Tree Felling and transplanting	6	23-Mar-20 A	28-Mar-20 A	29-Apr-20	29-Apr-20	
5D-6032	WKR-Stage2d - Planter removal	6	30-Mar-20 A	06-Apr-20 A	29-Apr-20	29-Apr-20	
5D-6034	WKR-Stage2d - Trench excavation	12	30-Mar-20 A	16-Apr-20 A	29-Apr-20	29-Apr-20	
5D-6036	WKR-Stage2d - Fire Hydrant relocation	12	03-Apr-20 A	21-Apr-20 A	29-Apr-20	29-Apr-20	
5D-6038	WKR-Stage2d - UU parties draw pit and cable realignment works - CLP	12	03-Apr-20 A	21-Apr-20 A	29-Apr-20	29-Apr-20	
5D-6040	WKR-Stage2d - Pillar box relocation	6	15-Apr-20 A	21-Apr-20 A	29-Apr-20	29-Apr-20	
5D-6042	WKR-Stage2d - Draw pit installation and duct laying for PL	12	15-Apr-20 A	28-Apr-20	29-Apr-20	04-May-20	3
5D-6044	WKR-Stage2d - Street lighting relocation	6	29-Apr-20	07-May-20	05-May-20	11-May-20	3
5D-6046	WKR-Stage2d - Relocation of Gully	14	29-Apr-20	16-May-20	05-May-20	20-May-20	3
5D-6048	WKR-Stage2d - Kerb installation	6	11-May-20	16-May-20	14-May-20	20-May-20	3
5D-6052	WKR-Stage2d - Railing installaiton	12	11-May-20	23-May-20	14-May-20	27-May-20	3
5D-6050	WKR-Stage2d - Road reinstatement	6	11-May-20	16-May-20	14-May-20	20-May-20	3
5D-6054	WKR-Stage2d - Completion of TTA Stage 2d	0		23-May-20		27-May-20	3
TTM Stage 3 (WKR/LHS Junction - Bus Depot) [CE-0033]		36	17-Jun-20	30-Jul-20	28-May-20	10-Jul-20	-17
5D-6056	WKR-Stage3 - Implement TTA Stage 3	0	17-Jun-20		28-May-20		-17
5D-6058	WKR-Stage3 - Trench excavation	12	17-Jun-20	02-Jul-20	28-May-20	10-Jun-20	-17
5D-6060	WKR-Stage3 - Draw pit installation and duct laying for E&M / ATC	6	24-Jun-20	02-Jul-20	04-Jun-20	10-Jun-20	-17
5D-6062	WKR-Stage3 - Fire Hydrant water valve relocation	6	03-Jul-20	09-Jul-20	11-Jun-20	17-Jun-20	-17
5D-6064	WKR-Stage3 - Relocation of Gully	6	03-Jul-20	09-Jul-20	11-Jun-20	17-Jun-20	-17
5D-6066	WKR-Stage3 - Kerb installation	6	03-Jul-20	09-Jul-20	11-Jun-20	17-Jun-20	-17
5D-6068	WKR-Stage3 - Traffic light installation	6	10-Jul-20	16-Jul-20	18-Jun-20	24-Jun-20	-17
5D-6070	WKR-Stage3 - Sign Post installation	6	10-Jul-20	16-Jul-20	18-Jun-20	24-Jun-20	-17
5D-6072	WKR-Stage3 - Road Reinstatement and block paving	12	10-Jul-20	23-Jul-20	18-Jun-20	03-Jul-20	-17
5D-6074	WKR-Stage3 - Railing installation	12	17-Jul-20	30-Jul-20	26-Jun-20	10-Jul-20	-17

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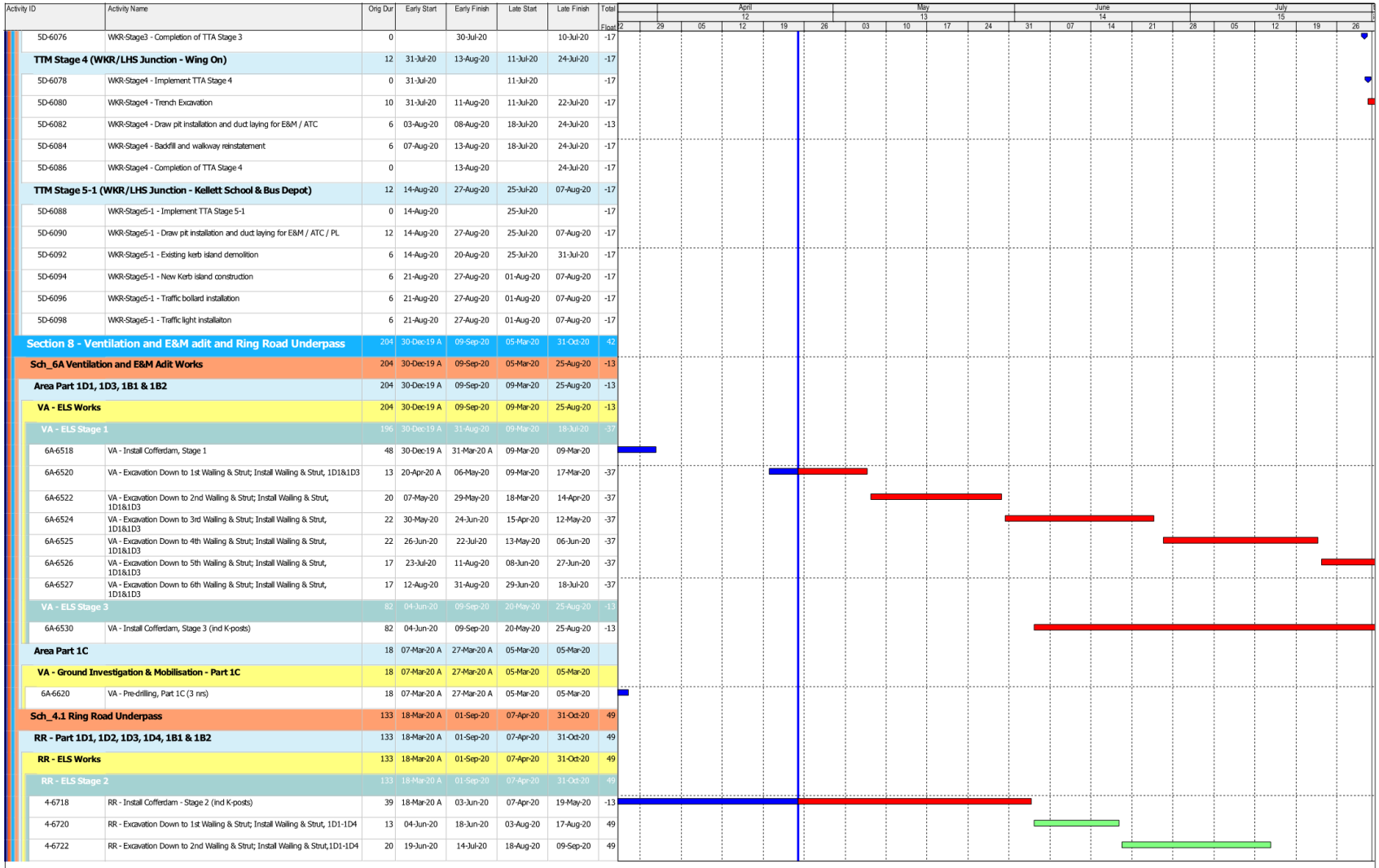
29-Apr-20	Submit Monthly Report M12	TST	DC



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
5D-6076	WKR-Stage3 - Completion of TTA Stage 3	0		30-Jul-20		10-Jul-20	-17
TTM Stage 4 (WKR/LHS Junction - Wing On)		12	31-Jul-20	13-Aug-20	11-Jul-20	24-Jul-20	-17
5D-6078	WKR-Stage4 - Implement TTA Stage 4	0	31-Jul-20		11-Jul-20		-17
5D-6080	WKR-Stage4 - Trench Excavation	10	31-Jul-20	11-Aug-20	11-Jul-20	22-Jul-20	-17
5D-6082	WKR-Stage4 - Draw pit installation and duct laying for E&M / ATC	6	03-Aug-20	08-Aug-20	18-Jul-20	24-Jul-20	-13
5D-6084	WKR-Stage4 - Backfill and walkway reinstatement	6	07-Aug-20	13-Aug-20	18-Jul-20	24-Jul-20	-17
5D-6086	WKR-Stage4 - Completion of TTA Stage 4	0		13-Aug-20		24-Jul-20	-17
TTM Stage 5-1 (WKR/LHS Junction - Kellett School & Bus Depot)		12	14-Aug-20	27-Aug-20	25-Jul-20	07-Aug-20	-17
5D-6088	WKR-Stage5-1 - Implement TTA Stage 5-1	0	14-Aug-20		25-Jul-20		-17
5D-6090	WKR-Stage5-1 - Draw pit installation and duct laying for E&M / ATC / PL	12	14-Aug-20	27-Aug-20	25-Jul-20	07-Aug-20	-17
5D-6092	WKR-Stage5-1 - Existing kerb island demolition	6	14-Aug-20	20-Aug-20	25-Jul-20	31-Jul-20	-17
5D-6094	WKR-Stage5-1 - New Kerb island construction	6	21-Aug-20	27-Aug-20	01-Aug-20	07-Aug-20	-17
5D-6096	WKR-Stage5-1 - Traffic bollard installation	6	21-Aug-20	27-Aug-20	01-Aug-20	07-Aug-20	-17
5D-6098	WKR-Stage5-1 - Traffic light installaiton	6	21-Aug-20	27-Aug-20	01-Aug-20	07-Aug-20	-17
Section 8 - Ventilation and E&M adit and Ring Road Underpass		204	30-Dec-19 A	09-Sep-20	05-Mar-20	31-Oct-20	42
Sch_6A Ventilation and E&M Adit Works		204	30-Dec-19 A	09-Sep-20	05-Mar-20	25-Aug-20	-13
Area Part 1D1, 1D3, 1B1 & 1B2		204	30-Dec-19 A	09-Sep-20	09-Mar-20	25-Aug-20	-13
VA - ELS Works		204	30-Dec-19 A	09-Sep-20	09-Mar-20	25-Aug-20	-13
VA - ELS Stage 1		196	30-Dec-19 A	31-Aug-20	09-Mar-20	18-Jul-20	-37
6A-6518	VA - Install Cofferdam, Stage 1	48	30-Dec-19 A	31-Mar-20 A	09-Mar-20	09-Mar-20	
6A-6520	VA - Excavation Down to 1st Walling & Strut; Install Walling & Strut, 1D1&1D3	13	20-Apr-20 A	06-May-20	09-Mar-20	17-Mar-20	-37
6A-6522	VA - Excavation Down to 2nd Walling & Strut; Install Walling & Strut, 1D1&1D3	20	07-May-20	29-May-20	18-Mar-20	14-Apr-20	-37
6A-6524	VA - Excavation Down to 3rd Walling & Strut; Install Walling & Strut, 1D1&1D3	22	30-May-20	24-Jun-20	15-Apr-20	12-May-20	-37
6A-6525	VA - Excavation Down to 4th Walling & Strut; Install Walling & Strut, 1D1&1D3	22	26-Jun-20	22-Jul-20	13-May-20	06-Jun-20	-37
6A-6526	VA - Excavation Down to 5th Walling & Strut; Install Walling & Strut, 1D1&1D3	17	23-Jul-20	11-Aug-20	08-Jun-20	27-Jun-20	-37
6A-6527	VA - Excavation Down to 6th Walling & Strut; Install Walling & Strut, 1D1&1D3	17	12-Aug-20	31-Aug-20	29-Jun-20	18-Jul-20	-37
VA - ELS Stage 3		82	04-Jun-20	09-Sep-20	20-May-20	25-Aug-20	-13
6A-6530	VA - Install Cofferdam, Stage 3 (ind K-posts)	82	04-Jun-20	09-Sep-20	20-May-20	25-Aug-20	-13
Area Part 1C		18	07-Mar-20 A	27-Mar-20 A	05-Mar-20	05-Mar-20	
VA - Ground Investigation & Mobilisation - Part 1C		18	07-Mar-20 A	27-Mar-20 A	05-Mar-20	05-Mar-20	
6A-6620	VA - Pre-drilling, Part 1C (3 nos)	18	07-Mar-20 A	27-Mar-20 A	05-Mar-20	05-Mar-20	
Sch_4.1 Ring Road Underpass		133	18-Mar-20 A	01-Sep-20	07-Apr-20	31-Oct-20	49
RR - Part 1D1, 1D2, 1D3, 1D4, 1B1 & 1B2		133	18-Mar-20 A	01-Sep-20	07-Apr-20	31-Oct-20	49
RR - ELS Works		133	18-Mar-20 A	01-Sep-20	07-Apr-20	31-Oct-20	49
RR - ELS Stage 2		133	18-Mar-20 A	01-Sep-20	07-Apr-20	31-Oct-20	49
4-6718	RR - Install Cofferdam - Stage 2 (ind K-posts)	39	18-Mar-20 A	03-Jun-20	07-Apr-20	19-May-20	-13
4-6720	RR - Excavation Down to 1st Walling & Strut; Install Walling & Strut, 1D1-1D4	13	04-Jun-20	18-Jun-20	03-Aug-20	17-Aug-20	49
4-6722	RR - Excavation Down to 2nd Walling & Strut; Install Walling & Strut,1D1-1D4	20	19-Jun-20	14-Jul-20	18-Aug-20	09-Sep-20	49

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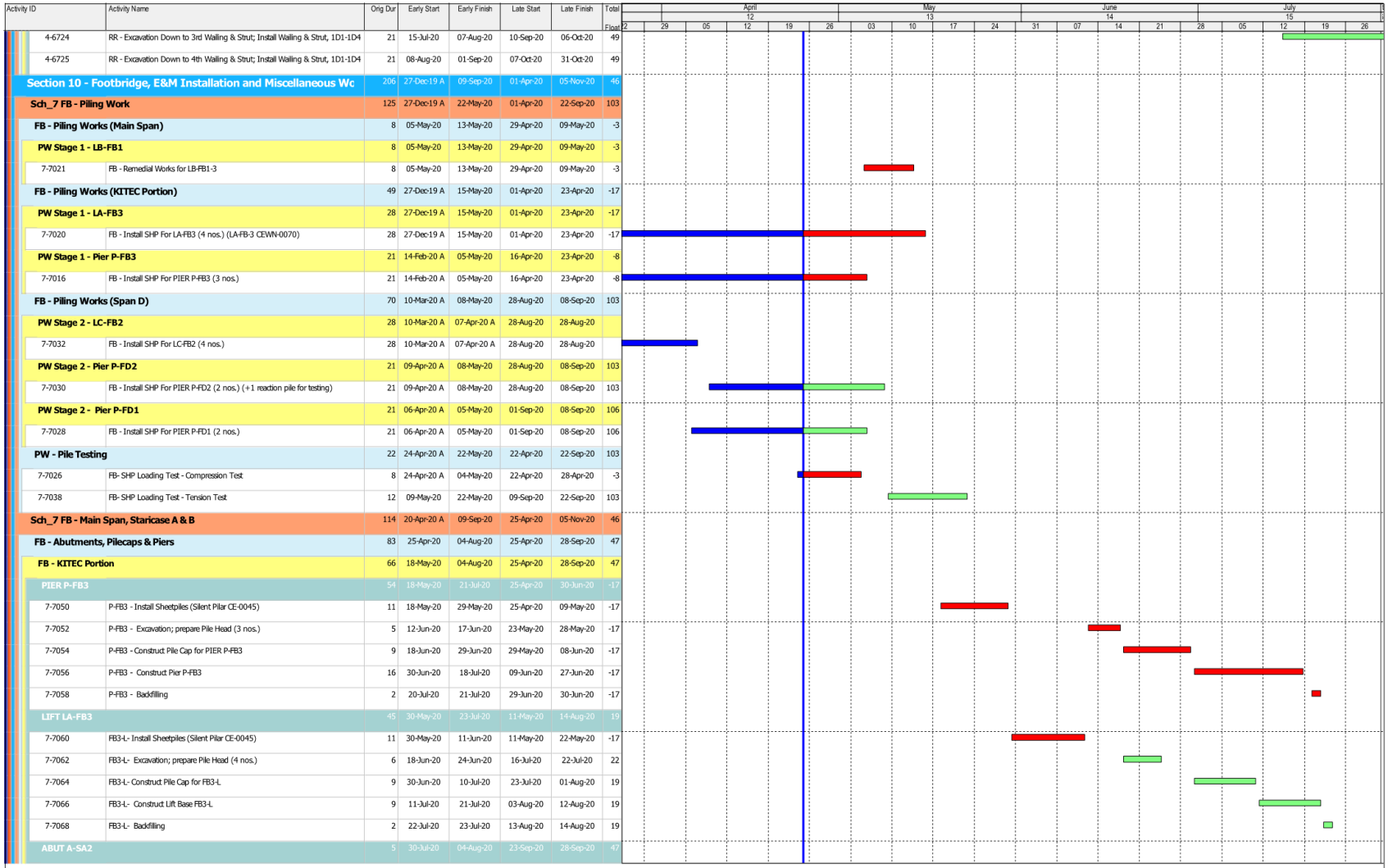

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
4-6724	RR - Excavation Down to 3rd Walling & Strut; Install Walling & Strut, 1D1-1D4	21	15-Jul-20	07-Aug-20	10-Sep-20	06-Oct-20	49
4-6725	RR - Excavation Down to 4th Walling & Strut; Install Walling & Strut, 1D1-1D4	21	08-Aug-20	01-Sep-20	07-Oct-20	31-Oct-20	49
Section 10 - Footbridge, E&M Installation and Miscellaneous Wc		206	27-Dec-19 A	09-Sep-20	01-Apr-20	05-Nov-20	46
Sch_7 FB - Piling Work		125	27-Dec-19 A	22-May-20	01-Apr-20	22-Sep-20	103
FB - Piling Works (Main Span)		8	05-May-20	13-May-20	29-Apr-20	09-May-20	-3
PW Stage 1 - LB-FB1		8	05-May-20	13-May-20	29-Apr-20	09-May-20	-3
7-7021	FB - Remedial Works for LB-FB1-3	8	05-May-20	13-May-20	29-Apr-20	09-May-20	-3
FB - Piling Works (KITEC Portion)		49	27-Dec-19 A	15-May-20	01-Apr-20	23-Apr-20	-17
PW Stage 1 - LA-FB3		28	27-Dec-19 A	15-May-20	01-Apr-20	23-Apr-20	-17
7-7020	FB - Install SHP For LA-FB3 (4 nos.) (LA-FB-3 CEWN-0070)	28	27-Dec-19 A	15-May-20	01-Apr-20	23-Apr-20	-17
PW Stage 1 - Pier P-FB3		21	14-Feb-20 A	05-May-20	16-Apr-20	23-Apr-20	-8
7-7016	FB - Install SHP For PIER P-FB3 (3 nos.)	21	14-Feb-20 A	05-May-20	16-Apr-20	23-Apr-20	-8
FB - Piling Works (Span D)		70	10-Mar-20 A	08-May-20	28-Aug-20	08-Sep-20	103
PW Stage 2 - LC-FB2		28	10-Mar-20 A	07-Apr-20 A	28-Aug-20	28-Aug-20	
7-7032	FB - Install SHP For LC-FB2 (4 nos.)	28	10-Mar-20 A	07-Apr-20 A	28-Aug-20	28-Aug-20	
PW Stage 2 - Pier P-FD2		21	09-Apr-20 A	08-May-20	28-Aug-20	08-Sep-20	103
7-7030	FB - Install SHP For PIER P-FD2 (2 nos.) (+1 reaction pile for testing)	21	09-Apr-20 A	08-May-20	28-Aug-20	08-Sep-20	103
PW Stage 2 - Pier P-FD1		21	06-Apr-20 A	05-May-20	01-Sep-20	08-Sep-20	106
7-7028	FB - Install SHP For PIER P-FD1 (2 nos.)	21	06-Apr-20 A	05-May-20	01-Sep-20	08-Sep-20	106
PW - Pile Testing		22	24-Apr-20 A	22-May-20	22-Apr-20	22-Sep-20	103
7-7026	FB- SHP Loading Test - Compression Test	8	24-Apr-20 A	04-May-20	22-Apr-20	28-Apr-20	-3
7-7038	FB- SHP Loading Test - Tension Test	12	09-May-20	22-May-20	09-Sep-20	22-Sep-20	103
Sch_7 FB - Main Span, Staricase A & B		114	20-Apr-20 A	09-Sep-20	25-Apr-20	05-Nov-20	46
FB - Abutments, Pilecaps & Piers		83	25-Apr-20	04-Aug-20	25-Apr-20	28-Sep-20	47
FB - KITEC Portion		66	18-May-20	04-Aug-20	25-Apr-20	28-Sep-20	47
PIER P-FB3		54	18-May-20	21-Jul-20	25-Apr-20	30-Jun-20	-17
7-7050	P-FB3 - Install Sheetpiles (Silent Pilar CE-0045)	11	18-May-20	29-May-20	25-Apr-20	09-May-20	-17
7-7052	P-FB3 - Excavation; prepare Pile Head (3 nos.)	5	12-Jun-20	17-Jun-20	23-May-20	28-May-20	-17
7-7054	P-FB3 - Construct Pile Cap for PIER P-FB3	9	18-Jun-20	29-Jun-20	29-May-20	08-Jun-20	-17
7-7056	P-FB3 - Construct Pier P-FB3	16	30-Jun-20	18-Jul-20	09-Jun-20	27-Jun-20	-17
7-7058	P-FB3 - Backfilling	2	20-Jul-20	21-Jul-20	29-Jun-20	30-Jun-20	-17
LIFT LA-FB3		45	30-May-20	23-Jul-20	11-May-20	14-Aug-20	19
7-7060	FB3-L- Install Sheetpiles (Silent Pilar CE-0045)	11	30-May-20	11-Jun-20	11-May-20	22-May-20	-17
7-7062	FB3-L- Excavation; prepare Pile Head (4 nos.)	6	18-Jun-20	24-Jun-20	16-Jul-20	22-Jul-20	22
7-7064	FB3-L- Construct Pile Cap for FB3-L	9	30-Jun-20	10-Jul-20	23-Jul-20	01-Aug-20	19
7-7066	FB3-L- Construct Lift Base FB3-L	9	11-Jul-20	21-Jul-20	03-Aug-20	12-Aug-20	19
7-7068	FB3-L- Backfilling	2	22-Jul-20	23-Jul-20	13-Aug-20	14-Aug-20	19
ABUT A-SA2		5	30-Jul-20	04-Aug-20	23-Sep-20	28-Sep-20	47

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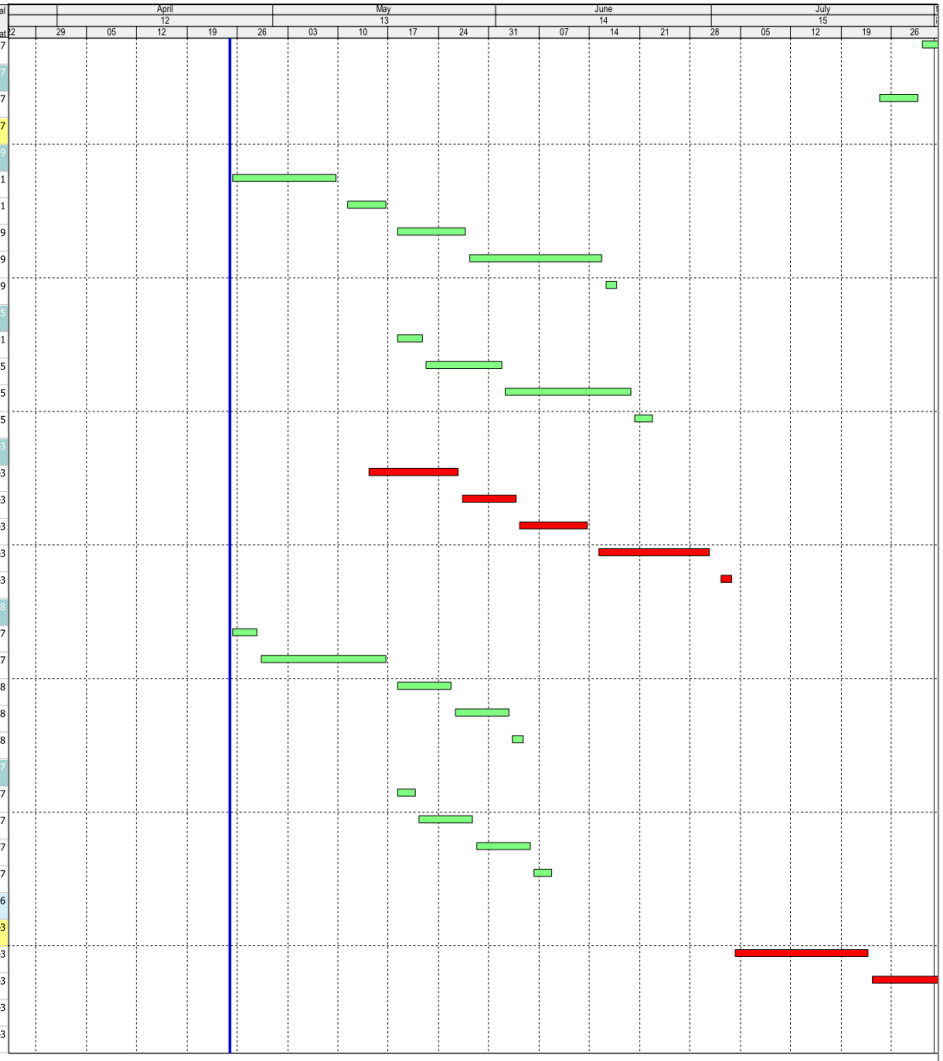
7-7093	FT-SA2 - Install sheetpile (Silent Pilar CE-0045)	5	30-Jul-20	04-Aug-20	23-Sep-20	28-Sep-20	47
PIER P-SA1		5	24-Jul-20	29-Jul-20	17-Sep-20	22-Sep-20	47
7-7085	P-SA1 - Install sheetpile	5	24-Jul-20	29-Jul-20	17-Sep-20	22-Sep-20	47
FB - Main Span Portion		56	25-Apr-20	03-Jul-20	27-Apr-20	23-Jul-20	17
PIER P-FB2		44	25-Apr-20	17-Jun-20	27-Apr-20	29-Jun-20	9
7-7040	P-FB2 - Install Sheetpiles	11	25-Apr-20	09-May-20	27-Apr-20	11-May-20	1
7-7042	P-FB2 - Excavation; prepare Pile Head (4 nos.)	6	11-May-20	16-May-20	12-May-20	18-May-20	1
7-7044	P-FB2 - Construct Pile Cap for PIER P-FB2	9	18-May-20	27-May-20	28-May-20	06-Jun-20	9
7-7046	P-FB2 - Construct Pier P-FB2	16	28-May-20	15-Jun-20	08-Jun-20	26-Jun-20	9
7-7048	P-FB2 - Backfilling	2	16-Jun-20	17-Jun-20	27-Jun-20	29-Jun-20	9
PIER P-FB1		31	18-May-20	22-Jun-20	19-May-20	29-Jun-20	5
7-7070	P-FB1 - Excavation; prepare Pile Head (2 nos.)	4	18-May-20	21-May-20	19-May-20	22-May-20	1
7-7072	P-FB1 - Construct Pile Cap for PIER P-FB1	9	22-May-20	01-Jun-20	28-May-20	06-Jun-20	5
7-7074	P-FB1 - Construct Pier P-FB1	16	02-Jun-20	19-Jun-20	08-Jun-20	26-Jun-20	5
7-7076	P-FB1 - Backfilling	2	20-Jun-20	22-Jun-20	27-Jun-20	29-Jun-20	5
LIFT LB-FB1		42	14-May-20	03-Jul-20	11-May-20	29-Jun-20	-3
7-7077	FB1-L - Install Sheetpile	11	14-May-20	26-May-20	11-May-20	22-May-20	-3
7-7078	FB1-L - Excavation; prepare Pile Head (4 nos.)	7	27-May-20	03-Jun-20	23-May-20	30-May-20	-3
7-7080	FB1-L- Construct Pile Cap for FB1-L	9	04-Jun-20	13-Jun-20	01-Jun-20	10-Jun-20	-3
7-7082	FB1-L- Construct Lift Base FB1-L	13	15-Jun-20	30-Jun-20	11-Jun-20	26-Jun-20	-3
7-7084	FB1-L- Backfilling	2	02-Jul-20	03-Jul-20	27-Jun-20	29-Jun-20	-3
ABUT A-SB2		33	25-Apr-20	04-Jun-20	10-Jun-20	21-Jul-20	38
7-7110	FT-SB2 - Excavation down to formation level	3	25-Apr-20	28-Apr-20	10-Jun-20	12-Jun-20	37
7-7111	FT-SB2 - Plate load test and report	14	29-Apr-20	16-May-20	13-Jun-20	30-Jun-20	37
7-7112	FT-SB2 - Construct Pile Cap for ABUT A-SB2	7	18-May-20	25-May-20	03-Jul-20	10-Jul-20	38
7-7114	A-SB2 - Construct Abutment A-SB2	7	26-May-20	02-Jun-20	11-Jul-20	18-Jul-20	38
7-7116	A-SB2 - Backfilling	2	03-Jun-20	04-Jun-20	20-Jul-20	21-Jul-20	38
PIER P-SB1		19	18-May-20	08-Jun-20	02-Jul-20	23-Jul-20	37
7-7102	P-SB1 - Excavation down to formation level	3	18-May-20	20-May-20	02-Jul-20	04-Jul-20	37
7-7104	P-SB1 - Construct Pile Cap for PIER P-SB1	7	21-May-20	28-May-20	06-Jul-20	13-Jul-20	37
7-7106	P-SB1 - Construct Pier P-SB1	7	29-May-20	05-Jun-20	14-Jul-20	21-Jul-20	37
7-7108	P-SB1 - Backfilling	2	06-Jun-20	08-Jun-20	22-Jul-20	23-Jul-20	37
FB - Superstructures		114	20-Apr-20 A	09-Sep-20	15-Jun-20	05-Nov-20	46
FB - Main Span (FB1 - FB2)		44	04-Jul-20	24-Aug-20	30-Jun-20	20-Aug-20	-3
7-7178	MB - Construct Falsework and Formwork (FB1-FB2)	16	04-Jul-20	22-Jul-20	30-Jun-20	18-Jul-20	-3
7-7180	MB - Construct Web and Soffit (FB1-FB2)	12	23-Jul-20	05-Aug-20	20-Jul-20	01-Aug-20	-3
7-7182	MB - Construct Deck Section (FB1-FB2)	10	06-Aug-20	17-Aug-20	03-Aug-20	13-Aug-20	-3
7-7184	MB - Remove Falsework and Formwork (FB1-FB2)	6	18-Aug-20	24-Aug-20	14-Aug-20	20-Aug-20	-3



Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 12 Update) (Rev6 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP06_M12
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Filter: TASK filters: 3 Months Rolling, KTE - Submission.

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11-Feb-20	Submit CSD Programme Rev3	TST	DC
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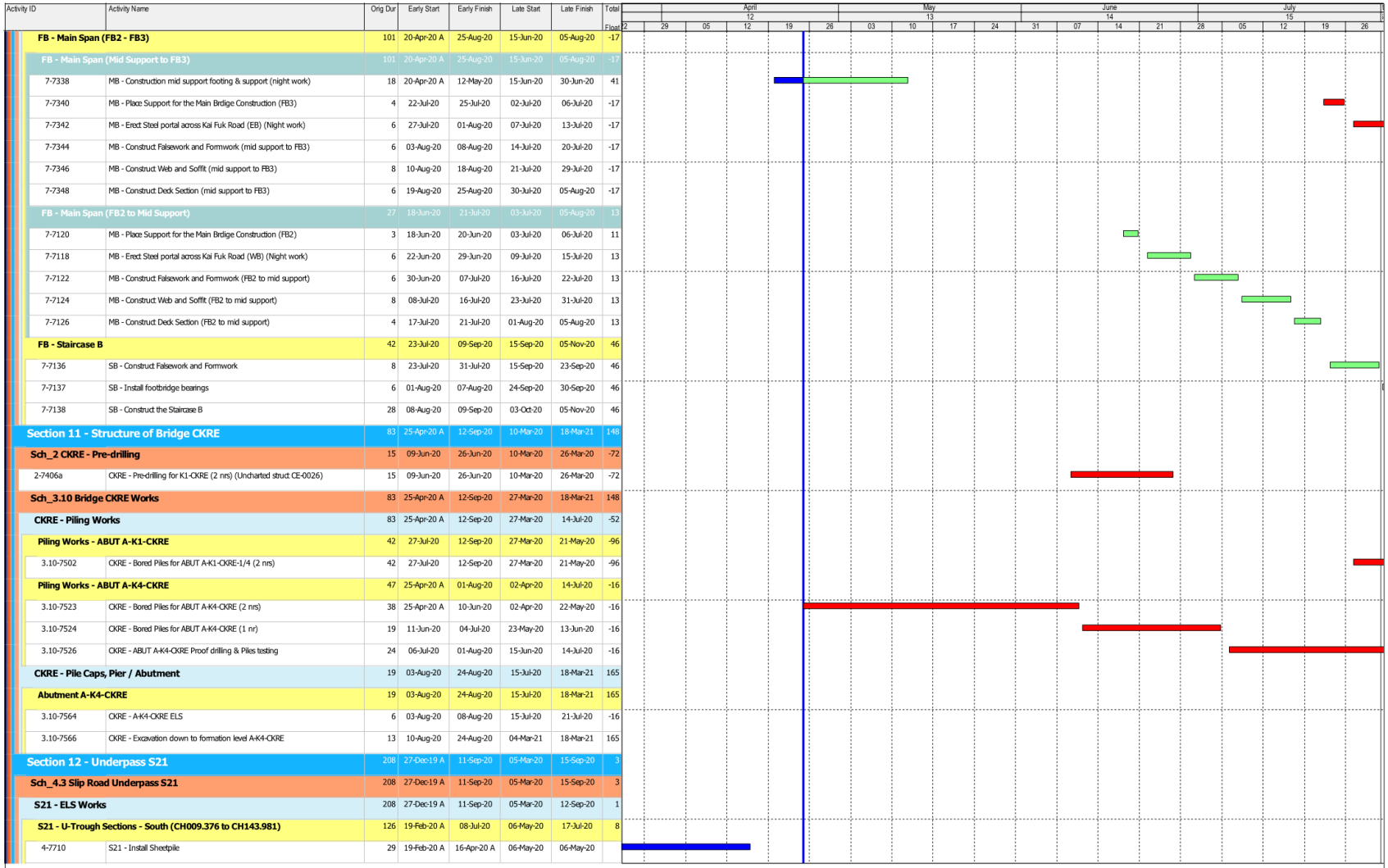
24-Apr-20	Submit CSD Programme Rev6	TST	DC
29-Apr-20	Submit Monthly Report M12	TST	DC



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
FB - Main Span (FB2 - FB3)		101	20-Apr-20 A	25-Aug-20	15-Jun-20	05-Aug-20	-17
FB - Main Span (Mid Support to FB3)		101	20-Apr-20 A	25-Aug-20	15-Jun-20	05-Aug-20	-17
7-7338	MB - Construction mid support footing & support (night work)	18	20-Apr-20 A	12-May-20	15-Jun-20	30-Jun-20	41
7-7340	MB - Place Support for the Main Brdige Construction (FB3)	4	22-Jul-20	25-Jul-20	02-Jul-20	06-Jul-20	-17
7-7342	MB - Erect Steel portal across Kai Fuk Road (EB) (Night work)	6	27-Jul-20	01-Aug-20	07-Jul-20	13-Jul-20	-17
7-7344	MB - Construct Falsework and Formwork (mid support to FB3)	6	03-Aug-20	08-Aug-20	14-Jul-20	20-Jul-20	-17
7-7346	MB - Construct Web and Soffit (mid support to FB3)	8	10-Aug-20	18-Aug-20	21-Jul-20	29-Jul-20	-17
7-7348	MB - Construct Deck Section (mid support to FB3)	6	19-Aug-20	25-Aug-20	30-Jul-20	05-Aug-20	-17
FB - Main Span (FB2 to Mid Support)		27	18-Jun-20	21-Jul-20	03-Jul-20	05-Aug-20	13
7-7120	MB - Place Support for the Main Brdige Construction (FB2)	3	18-Jun-20	20-Jun-20	03-Jul-20	06-Jul-20	11
7-7118	MB - Erect Steel portal across Kai Fuk Road (WB) (Night work)	6	22-Jun-20	29-Jun-20	09-Jul-20	15-Jul-20	13
7-7122	MB - Construct Falsework and Formwork (FB2 to mid support)	6	30-Jun-20	07-Jul-20	16-Jul-20	22-Jul-20	13
7-7124	MB - Construct Web and Soffit (FB2 to mid support)	8	08-Jul-20	16-Jul-20	23-Jul-20	31-Jul-20	13
7-7126	MB - Construct Deck Section (FB2 to mid support)	4	17-Jul-20	21-Jul-20	01-Aug-20	05-Aug-20	13
FB - Staircase B		42	23-Jul-20	09-Sep-20	15-Sep-20	05-Nov-20	46
7-7136	SB - Construct Falsework and Formwork	8	23-Jul-20	31-Jul-20	15-Sep-20	23-Sep-20	46
7-7137	SB - Install footbridge bearings	6	01-Aug-20	07-Aug-20	24-Sep-20	30-Sep-20	46
7-7138	SB - Construct the Staircase B	28	08-Aug-20	09-Sep-20	03-Oct-20	05-Nov-20	46
Section 11 - Structure of Bridge CKRE		83	25-Apr-20 A	12-Sep-20	10-Mar-20	18-Mar-21	148
Sch_2 CKRE - Pre-drilling		15	09-Jun-20	26-Jun-20	10-Mar-20	26-Mar-20	-72
2-7406a	CKRE - Pre-drilling for K1-CKRE (2 nrs) (Uncharted struct CE-0026)	15	09-Jun-20	26-Jun-20	10-Mar-20	26-Mar-20	-72
Sch_3.10 Bridge CKRE Works		83	25-Apr-20 A	12-Sep-20	27-Mar-20	18-Mar-21	148
CKRE - Piling Works		83	25-Apr-20 A	12-Sep-20	27-Mar-20	14-Jul-20	-52
Piling Works - ABUT A-K1-CKRE		42	27-Jul-20	12-Sep-20	27-Mar-20	21-May-20	-96
3.10-7502	CKRE - Bored Piles for ABUT A-K1-CKRE-1/4 (2 nrs)	42	27-Jul-20	12-Sep-20	27-Mar-20	21-May-20	-96
Piling Works - ABUT A-K4-CKRE		47	25-Apr-20 A	01-Aug-20	02-Apr-20	14-Jul-20	-16
3.10-7523	CKRE - Bored Piles for ABUT A-K4-CKRE (2 nrs)	38	25-Apr-20 A	10-Jun-20	02-Apr-20	22-May-20	-16
3.10-7524	CKRE - Bored Piles for ABUT A-K4-CKRE (1 nr)	19	11-Jun-20	04-Jul-20	23-May-20	13-Jun-20	-16
3.10-7526	CKRE - ABUT A-K4-CKRE Proof drilling & Piles testing	24	06-Jul-20	01-Aug-20	15-Jun-20	14-Jul-20	-16
CKRE - Pile Caps, Pier / Abutment		19	03-Aug-20	24-Aug-20	15-Jul-20	18-Mar-21	165
Abutment A-K4-CKRE		19	03-Aug-20	24-Aug-20	15-Jul-20	18-Mar-21	165
3.10-7564	CKRE - A-K4-CKRE ELS	6	03-Aug-20	08-Aug-20	15-Jul-20	21-Jul-20	-16
3.10-7566	CKRE - Excavation down to formation level A-K4-CKRE	13	10-Aug-20	24-Aug-20	04-Mar-21	18-Mar-21	165
Section 12 - Underpass S21		208	27-Dec-19 A	11-Sep-20	05-Mar-20	15-Sep-20	3
Sch_4.3 Slip Road Underpass S21		208	27-Dec-19 A	11-Sep-20	05-Mar-20	15-Sep-20	3
S21 - ELS Works		208	27-Dec-19 A	11-Sep-20	05-Mar-20	12-Sep-20	1
S21 - U-Trough Sections - South (CH009.376 to CH143.981)		126	19-Feb-20 A	08-Jul-20	06-May-20	17-Jul-20	8
4-7710	S21 - Install Sheetpile	29	19-Feb-20 A	16-Apr-20 A	06-May-20	06-May-20	

April 12 | May 13 | June 14 | July 15
29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26

Current Milestone
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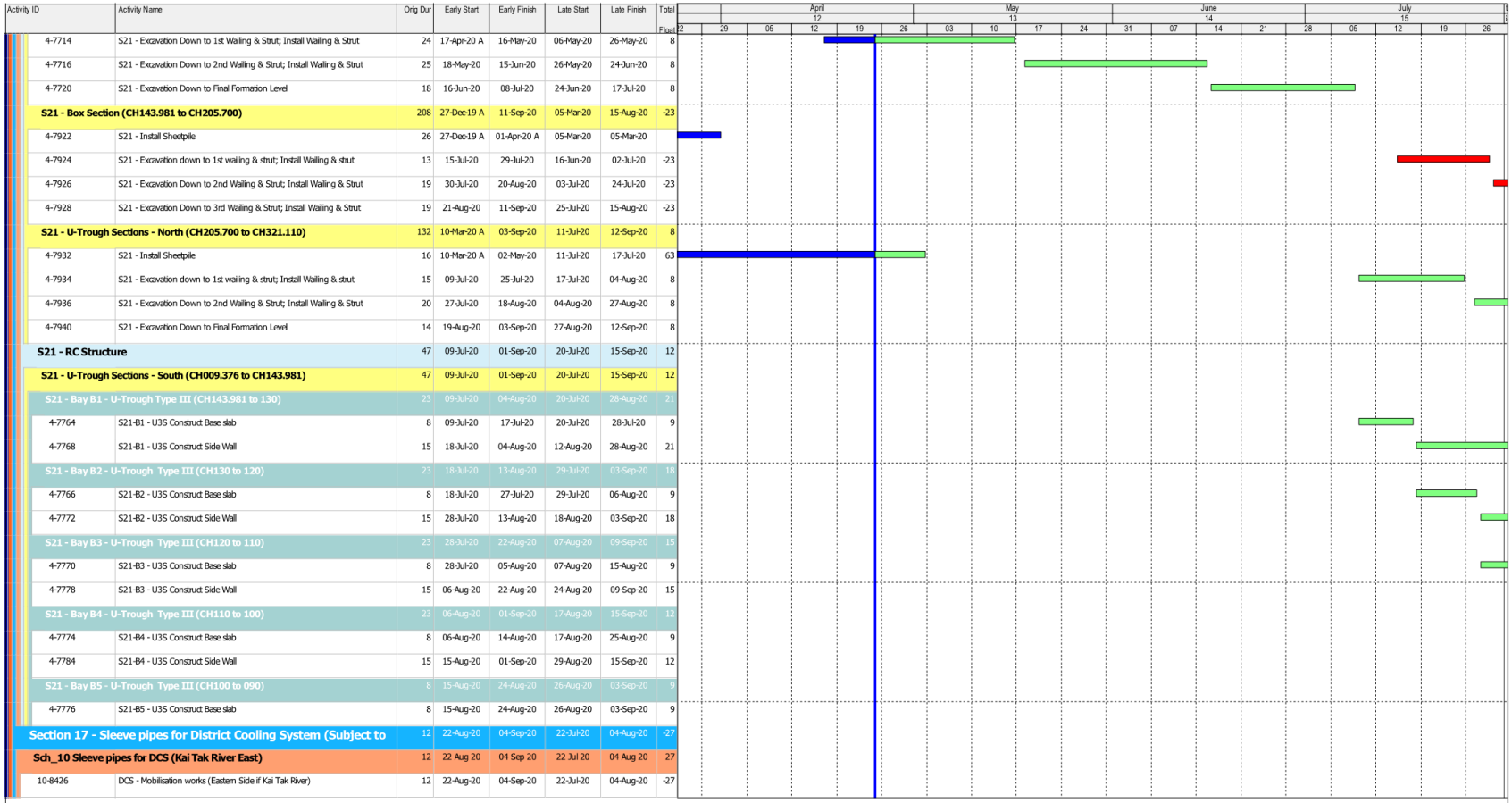
29-Apr-20	Submit Monthly Report M12	TST	DC



Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float
4-7714	S21 - Excavation Down to 1st Wailing & Strut; Install Wailing & Strut	24	17-Apr-20 A	16-May-20	06-May-20	26-May-20	8
4-7716	S21 - Excavation Down to 2nd Wailing & Strut; Install Wailing & Strut	25	18-May-20	15-Jun-20	26-May-20	24-Jun-20	8
4-7720	S21 - Excavation Down to Final Formation Level	18	16-Jun-20	08-Jul-20	24-Jun-20	17-Jul-20	8
S21 - Box Section (CH143.981 to CH205.700)		208	27-Dec-19 A	11-Sep-20	05-Mar-20	15-Aug-20	-23
4-7922	S21 - Install Sheetpile	26	27-Dec-19 A	01-Apr-20 A	05-Mar-20	05-Mar-20	
4-7924	S21 - Excavation down to 1st wailing & strut; Install Wailing & strut	13	15-Jul-20	29-Jul-20	16-Jun-20	02-Jul-20	-23
4-7926	S21 - Excavation Down to 2nd Wailing & Strut; Install Wailing & Strut	19	30-Jul-20	20-Aug-20	03-Jul-20	24-Jul-20	-23
4-7928	S21 - Excavation Down to 3rd Wailing & Strut; Install Wailing & Strut	19	21-Aug-20	11-Sep-20	25-Jul-20	15-Aug-20	-23
S21 - U-Trough Sections - North (CH205.700 to CH321.110)		132	10-Mar-20 A	03-Sep-20	11-Jul-20	12-Sep-20	8
4-7932	S21 - Install Sheetpile	16	10-Mar-20 A	02-May-20	11-Jul-20	17-Jul-20	63
4-7934	S21 - Excavation down to 1st wailing & strut; Install Wailing & strut	15	09-Jul-20	25-Jul-20	17-Jul-20	04-Aug-20	8
4-7936	S21 - Excavation Down to 2nd Wailing & Strut; Install Wailing & Strut	20	27-Jul-20	18-Aug-20	04-Aug-20	27-Aug-20	8
4-7940	S21 - Excavation Down to Final Formation Level	14	19-Aug-20	03-Sep-20	27-Aug-20	12-Sep-20	8
S21 - RC Structure		47	09-Jul-20	01-Sep-20	20-Jul-20	15-Sep-20	12
S21 - U-Trough Sections - South (CH009.376 to CH143.981)		47	09-Jul-20	01-Sep-20	20-Jul-20	15-Sep-20	12
S21 - Bay B1 - U-Trough Type III (CH143.981 to 130)		23	09-Jul-20	04-Aug-20	20-Jul-20	28-Aug-20	21
4-7764	S21-B1 - U3S Construct Base slab	8	09-Jul-20	17-Jul-20	20-Jul-20	28-Jul-20	9
4-7768	S21-B1 - U3S Construct Side Wall	15	18-Jul-20	04-Aug-20	12-Aug-20	28-Aug-20	21
S21 - Bay B2 - U-Trough Type III (CH130 to 120)		23	18-Jul-20	13-Aug-20	29-Jul-20	03-Sep-20	18
4-7766	S21-B2 - U3S Construct Base slab	8	18-Jul-20	27-Jul-20	29-Jul-20	06-Aug-20	9
4-7772	S21-B2 - U3S Construct Side Wall	15	28-Jul-20	13-Aug-20	18-Aug-20	03-Sep-20	18
S21 - Bay B3 - U-Trough Type III (CH120 to 110)		23	28-Jul-20	22-Aug-20	07-Aug-20	09-Sep-20	15
4-7770	S21-B3 - U3S Construct Base slab	8	28-Jul-20	05-Aug-20	07-Aug-20	15-Aug-20	9
4-7778	S21-B3 - U3S Construct Side Wall	15	06-Aug-20	22-Aug-20	24-Aug-20	09-Sep-20	15
S21 - Bay B4 - U-Trough Type III (CH110 to 100)		23	06-Aug-20	01-Sep-20	17-Aug-20	15-Sep-20	12
4-7774	S21-B4 - U3S Construct Base slab	8	06-Aug-20	14-Aug-20	17-Aug-20	25-Aug-20	9
4-7784	S21-B4 - U3S Construct Side Wall	15	15-Aug-20	01-Sep-20	29-Aug-20	15-Sep-20	12
S21 - Bay B5 - U-Trough Type III (CH100 to 090)		8	15-Aug-20	24-Aug-20	26-Aug-20	03-Sep-20	9
4-7776	S21-B5 - U3S Construct Base slab	8	15-Aug-20	24-Aug-20	26-Aug-20	03-Sep-20	9
Section 17 - Sleeve pipes for District Cooling System (Subject to		12	22-Aug-20	04-Sep-20	22-Jul-20	04-Aug-20	-27
Sch_10 Sleeve pipes for DCS (Kai Tak River East)		12	22-Aug-20	04-Sep-20	22-Jul-20	04-Aug-20	-27
10-8426	DCS - Mobilisation works (Eastern Side if Kai Tak River)	12	22-Aug-20	04-Sep-20	22-Jul-20	04-Aug-20	-27

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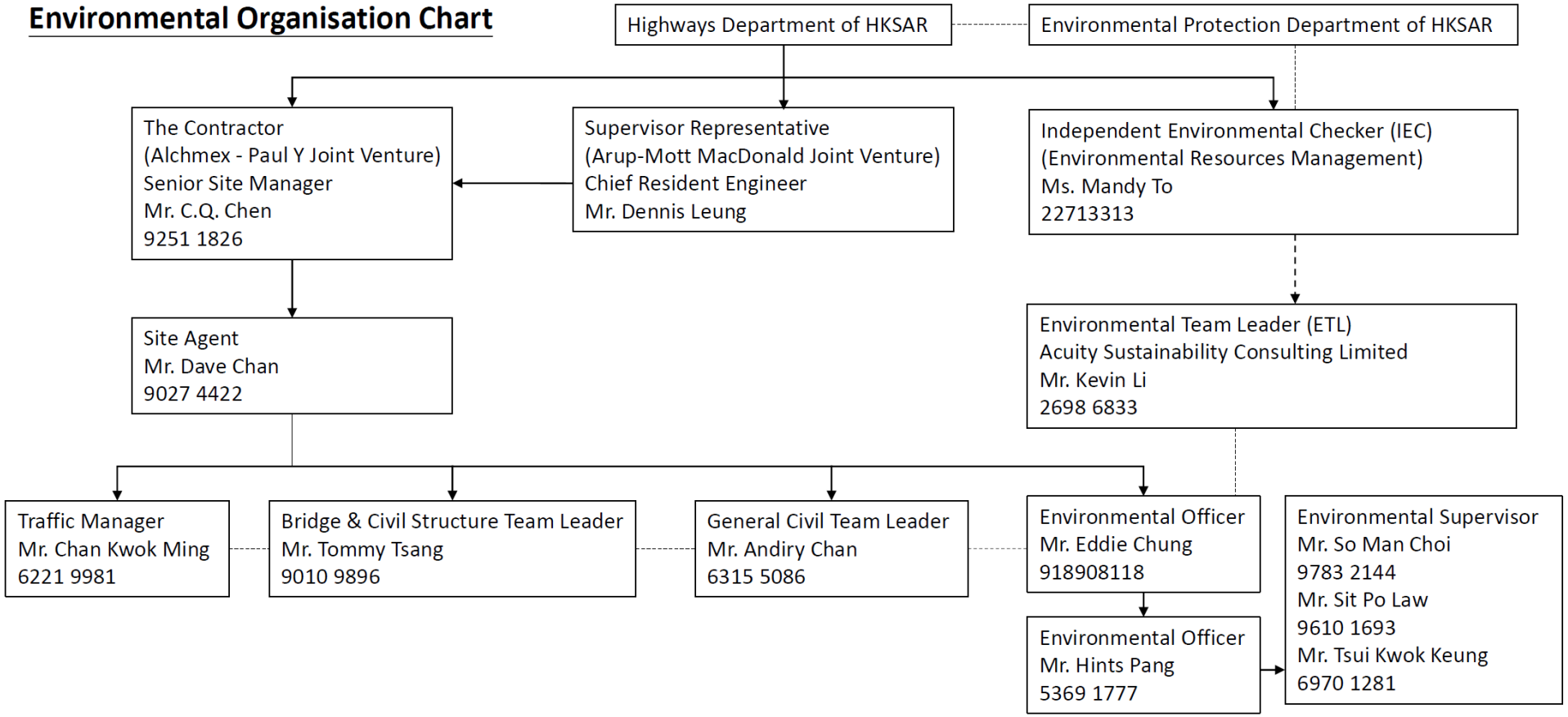
29-Apr-20	Submit Monthly Report M12	TST	DC

Appendix C
Project Organization Chart

Environmental Organisation Chart



愛銘－保華聯營
Alchmex - Paul Y Joint Venture

Appendix D
Dust Event-Action Plan (EAP)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
ACTION LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2.Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method;	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor;	1. Take immediate action to avoid further exceedance; 2. 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.	3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. 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	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. 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
Environmental Mitigation Implementation Schedule (EMIS)

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction Dust Impact								
S4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented
S4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m^2 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 and rectified after observation.
S4.3.10	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.

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		extended beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical						

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						
S4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	• Implemented
Construction Noise (Airborne)								

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

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

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

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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
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	• Implemented
Water Quality (Construction Phase)								

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1	W1	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: <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; • 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; • 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	<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. • 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	<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	• Implemented
S6.9.1.5	W4	<u>Groundwater from Potential Contaminated Area:</u> • 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 to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol						

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		interceptor.						
S6.9.1.6	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 and rectified after observation.
Waste Management (Construction 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	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• N/A

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

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		• Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and • Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						
S7.5.1	WM3	<u>C&D Waste</u> • Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	• Land (Miscellaneous Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW No. 19/2005	• Implemented

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		sites should be considered for such segregation and storage.						
S7.5.1	WM4	<u>Excavated Contaminated Soils</u> • Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	• Practice Guide (PG) for Investigation and Remediation of Contaminated Land • GN/GM for land contamination	• Implemented
S7.5.1	WM5	<u>Land-based Sediment</u> • All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; • 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 excess materials shall never be dumped into 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.						
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; • 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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		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.						
S7.5.1	WM7	<u>General Refuse</u> • 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 and rectified after observation.

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		collection. Participation in a local collection scheme should be considered by the Contractor.						
Land Contamination								
S8.9 & Appendix 8.4	LC2	<u>Excavation of the Contaminated Soil</u> • Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. • The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. • The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	• Practice Guide (PG) for Investigation and Remediation of Contaminated Land • Guidance Notes for Contaminated Land Assessment and Remediation • Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	• 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:						• N/A

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		<table><tr><td>Locations</td><td>Testing requirement</td><td>Acceptance Criteria</td></tr><tr><td>PBH4</td><td>PCBs</td><td>RBRGs (Public Park)</td></tr></table> • If the results of analysis below the RBRGs (Public Park), no further excavation will be required. If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist.						
Appendix 8.4	LC4	A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						• N/A
Hazard to Life								
S9.18	H8	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	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be	Construction stage	-	• N/A

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

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

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S10.10.1 Table 10.11	LV8	Tree Transplantation • For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	• N/A
S10.10.1 Table 10.11	LV9	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 Application process under ETWBTC 3/2006. • Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	• N/A

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		and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process.						
S10.10.1 Table 10.11	LV10	<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	<u>Reinstatement</u> • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	• N/A

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Cultural Heritage Impact (Construction 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 F
Monitoring Schedule of the Reporting Month

April 2020

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

Appendix G
Calibration Certificates
(Air Monitoring)

SIBATA

SIBATA SCIENTIFIC TECHNOLOGY LTD.
1-1-62, Nakane, Soka, Saitama, 340-0005 Japan
TEL : 048-933-1582 FAX : 048-933-1591

CALIBRATION CERTIFICATE

Date: August 28th, 2019

Equipment Name	:	Digital Dust Indicator, Model LD-5R
Code No.	:	080000-72
Quantity	:	1 unit
Serial No.	:	851820
Sensitivity	:	0.001 mg/m3
Sensitivity Adjustment	:	640
Scale Setting	:	August 23rd, 2019

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Tong Zhang

Tong Zhang
Overseas & New Business Group
Overseas Sales Department

TISCH Environmental

RECALIBRATION DUE DATE:
October 10, 2020

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	October 10, 2019	**Rootsmeter S/N:** 438320	**Ta:** 296	°K
Operator:	Jim Tisch		**Pa:** 748.03	mm Hg
Calibration Model #:	TE-5028A	**Calibrator S/N:** **3702**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3100	4.1	1.50
2	3	4	1	1.0240	6.7	2.50
3	5	6	1	0.9260	8.0	3.00
4	7	8	1	0.8620	9.4	3.50
5	9	10	1	0.6540	16.2	6.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
0.9855	0.7523	1.2192	0.9945	0.7592	0.7704
0.9820	0.9590	1.5739	0.9910	0.9678	0.9946
0.9803	1.0586	1.7242	0.9893	1.0684	1.0895
0.9784	1.1351	1.8623	0.9874	1.1455	1.1768
0.9694	1.4823	2.4383	0.9783	1.4959	1.5409
QSTD	**m=**	**1.66723**	**QA**	**m=**	**1.04399**
	b=	**-0.03281**		**b=**	**-0.02074**
	r=	**0.99991**		**r=**	**0.99991**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	**Qa=**	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

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

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

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

InnoTech Instrumentation Co. Ltd.
創 新 科 儀 有 限 公 司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	07-Apr-2020
Serial No:	1085	Model:	TE-5170X	Operator:	Polar Chan

Ambient Condition

Corrected Pressure (mm Hg):	763.5	Temperature (deg K):	293.6

Calibration Orifice

Model:	TE-5028A	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or Test #	In,H2O (in)	Qa, X-Axis (m3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	1.71	0.812	32.5	32.82
2	2.22	0.922	34.6	34.94
3	2.41	0.960	35.5	35.85
4	2.83	1.039	36.8	37.16
5	3.09	1.084	37.7	38.07

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

m= 19.2051 b= 17.2658 Corr. Coeff= 0.9992

Sampler set point(SSP) 40 CFM

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg

m = sampler slope
b = sampler intercept
I = chart response
Tav = average temperature
Pav = average pressure

For subsequent calculation of sampler flow:
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Checked by: Date: 7-Apr-20

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:	23-Apr-2020
Serial No:	1085	Model:	TE-5170X	Operator:	Polar Chan

Ambient Condition

Corrected Pressure (mm Hg):	763.5	Temperature (deg K):	293.6

Calibration Orifice

Model:	TE-5028A	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or Test #	In,H2O (in)	Qa, X-Axis (m3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	1.71	0.812	32.7	33.02
2	2.24	0.926	34.6	34.94
3	2.32	0.942	35.0	35.34
4	2.83	1.039	36.6	36.96
5	3.12	1.089	37.6	37.97

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

m= 17.7330 b= 18.5929 Corr. Coeff= 0.9995

Sampler set point(SSP) 40 CFM

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

m = sampler slope
b = sampler intercept
I = chart response
Tav = average temperature
Pav = average pressure

Checked by: Date: 23-Apr-20

Appendix H
The Certification of Laboratory with HOKLAS Accredited Analytical Tests

Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ACUMEN LABORATORY AND TESTING LIMITED
浩科檢測中心有限公司

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

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

HOKLAS Accredited Laboratory
「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

Environmental Testing

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

環境測試

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

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

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

Registration Number : HOKLAS 241
註冊號碼：

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

L 001195

Appendix I
Location Plan of Air Quality Monitoring Station

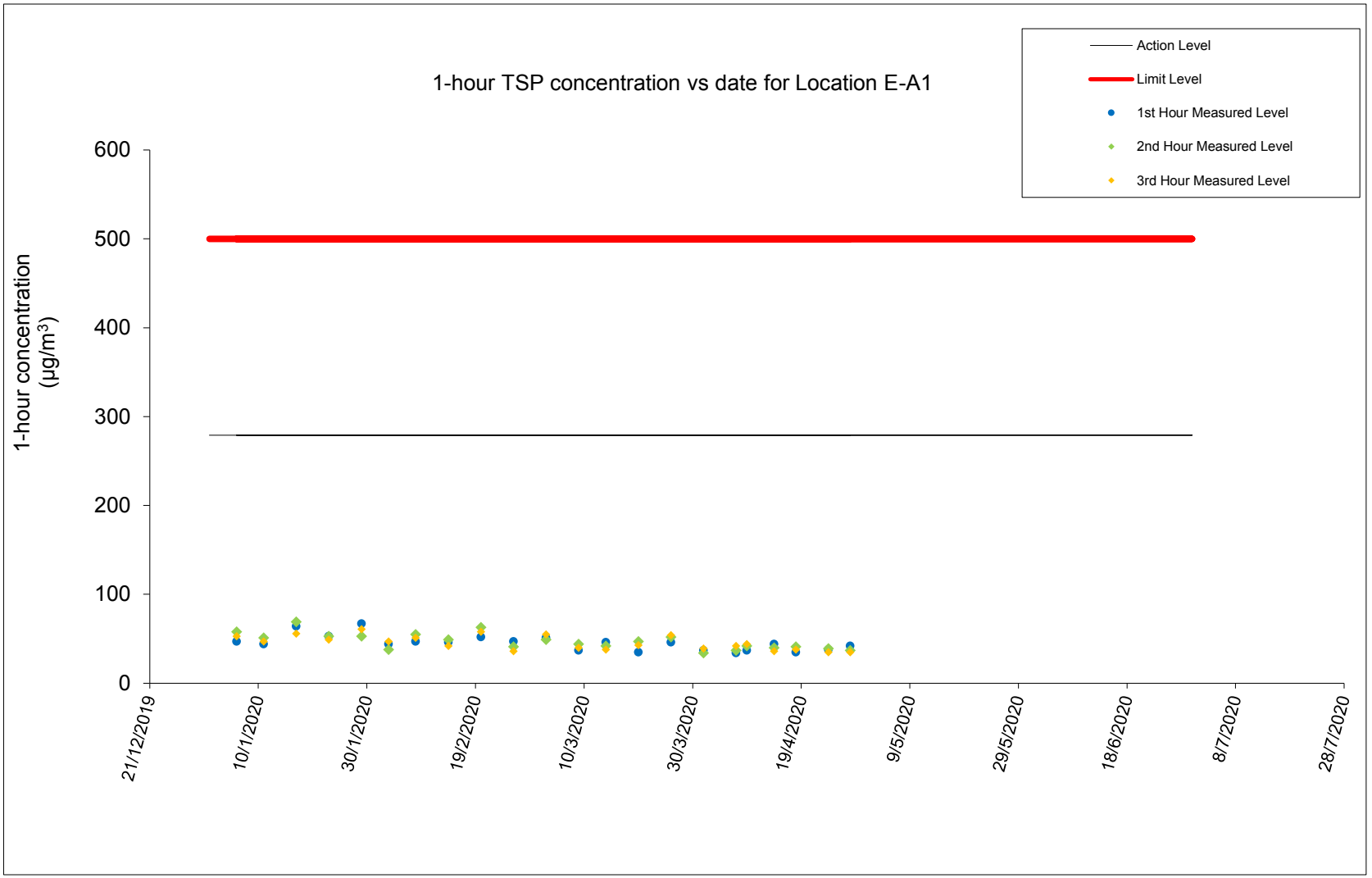

N
E-A1
Date: 19-Aug-2019
Scale 1:4000(A3)

Appendix J
Monitoring Data (Air Monitoring)

Location: Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date: 1, 7, 9, 14, 18, 24, 28 April 2020
Parameter: TSP 1-hour
Other Factors: Nearby traffic

Date	1-hour TSP (µg/m^3)				
	Weather	Start Time	1st Hour (µg/m^3)	2nd Hour (µg/m^3)	3rd Hour (µg/m^3)
01/04/2020	Cloudy	10:42	37	34	39
07/04/2020	Fine	11:18	34	37	42
09/04/2020	Sunny	12:17	37	42	44
14/04/2020	Fine	11:00	44	40	36
18/04/2020	Sunny	9:04	35	41	38
24/04/2020	Sunny	10:51	38	39	35
28/04/2020	Sunny	9:13	42	37	35

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



Location: Hong Kong International Trade and Exhibition Centre (E-A1)

Monitoring date: 1, 7, 9, 14, 18, 24, 28 April 2020

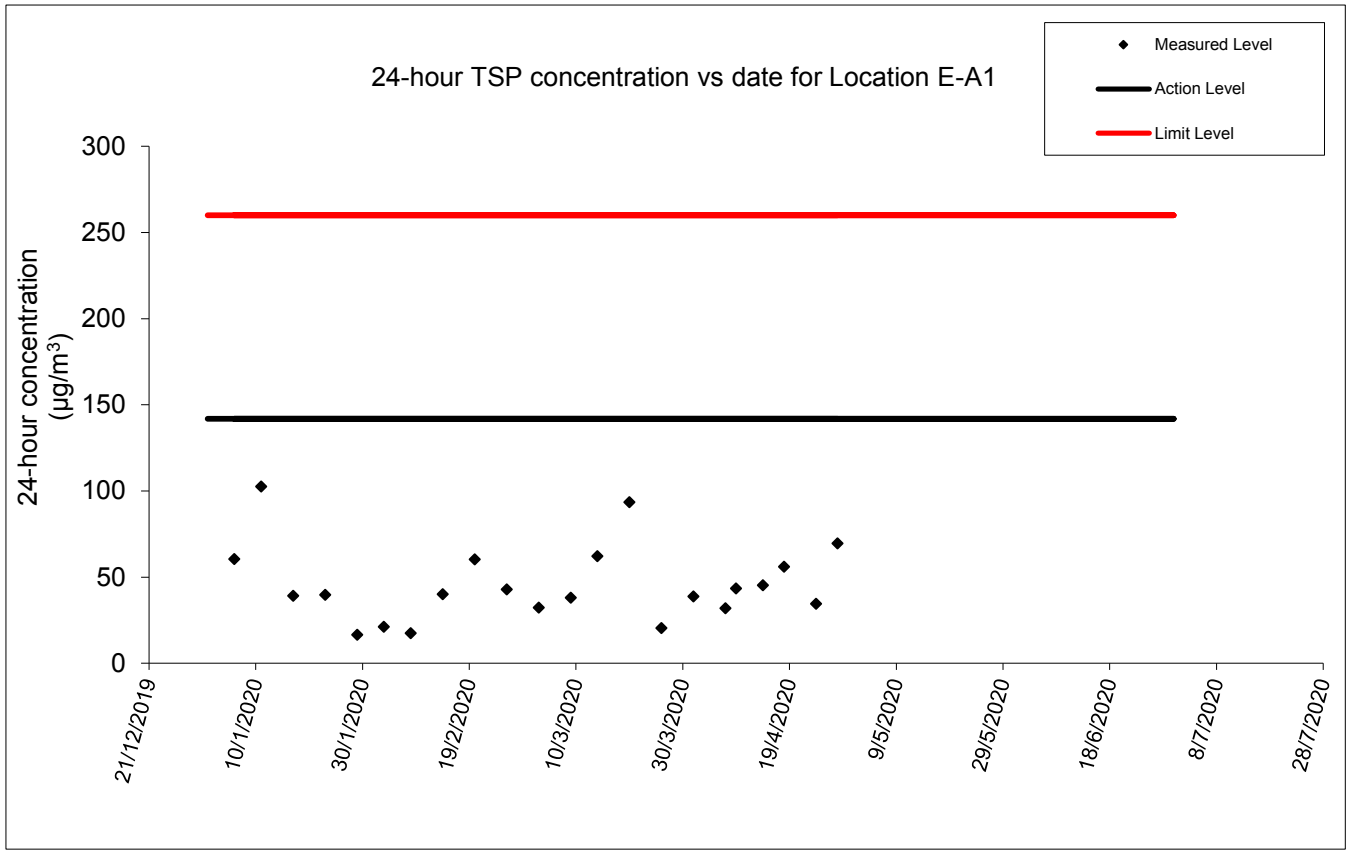
Parameter: TSP 24-hour

Other Factors: Nearby traffic

Date of Calibration:	19-Mar-20	Slop =	17.9598
Calibration due date:	2-Apr-20	Intercept =	16.7623
Date of Calibration:	7-Apr-20	Slop =	19.2051
Calibration due date:	21-Apr-20	Intercept =	17.2658
Date of Calibration:	23-Apr-20	Slop =	17.7330
Calibration due date:	7-May-20	Intercept =	18.5929

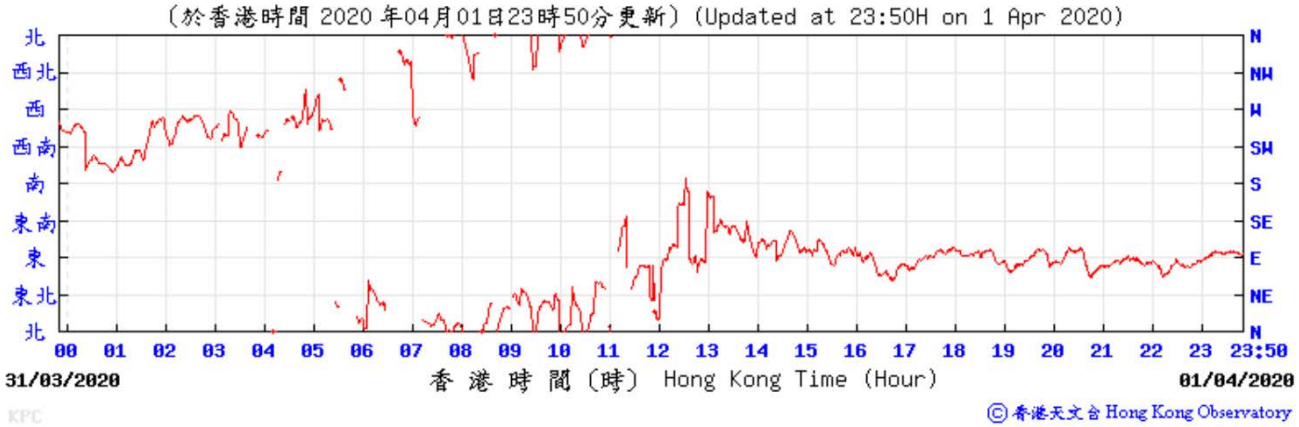
Start Date	Weather Condition	Elapse Time			Chart Reading			Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulate weight	Conc.
		Initial	Final	Actual (min)	Min	Max	Avg	(^oC)	(mm hPa)	(m^3/min)	(m^3)	Initial	Final	(g)	($\mu g/m^3$)
1/4/2020	Cloudy	1248.42	1272.42	1440.00	39	39	39.0	19.7	1015.0	1.26	1814	2.7003	2.7709	0.0706	39
7/4/2020	Fine	1272.62	1296.62	1440.00	40	41	40.5	19.1	1015.5	1.23	1777	2.7406	2.7975	0.0569	32
9/4/2020	Sunny	1296.62	1320.62	1440.00	40	41	40.5	21.6	1017.5	1.23	1770	2.7271	2.8039	0.0768	43
14/4/2020	Fine	1320.85	1344.85	1440.00	40	41	40.5	21.1	1017.5	1.23	1773	2.7634	2.8439	0.0805	45
18/4/2020	Sunny	1344.92	1368.92	1440.00	41	41	41.0	24.4	1013.9	1.24	1782	2.6951	2.7951	0.1000	56
24/4/2020	Sunny	1368.98	1392.98	1440.00	40	40	40.0	19.4	1019.0	1.24	1785	2.7259	2.7875	0.0616	35
28/4/2020	Sunny	1393.12	1417.12	1440.00	40	40	40.0	24.3	1017.5	1.22	1753	2.6769	2.7991	0.1222	70

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



WIND DIRECTION DATA FOR 1, 2, 7, 8, 9, 10, 14, 15, 18, 19, 24, 25, 28, 29 April 2020

Wind Direction:



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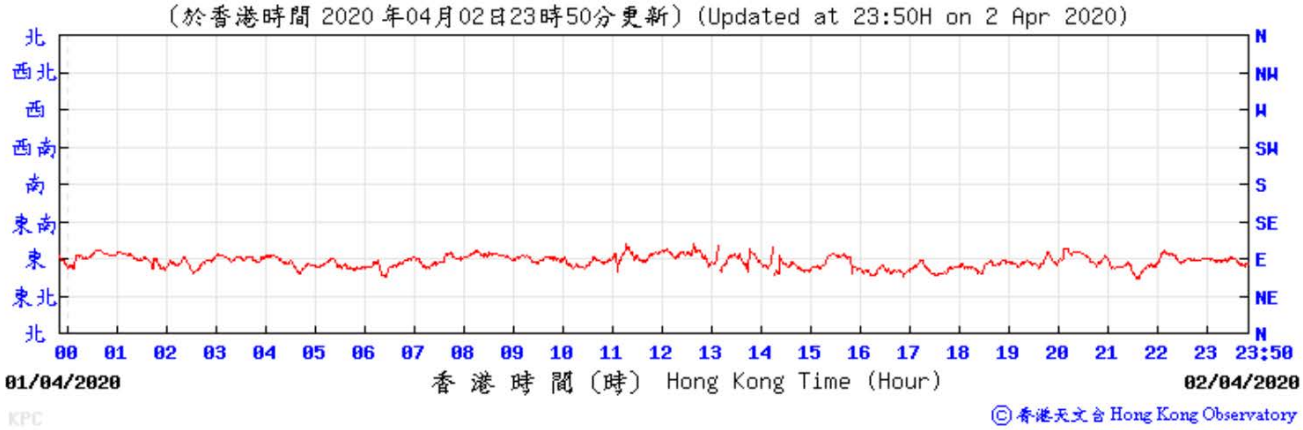

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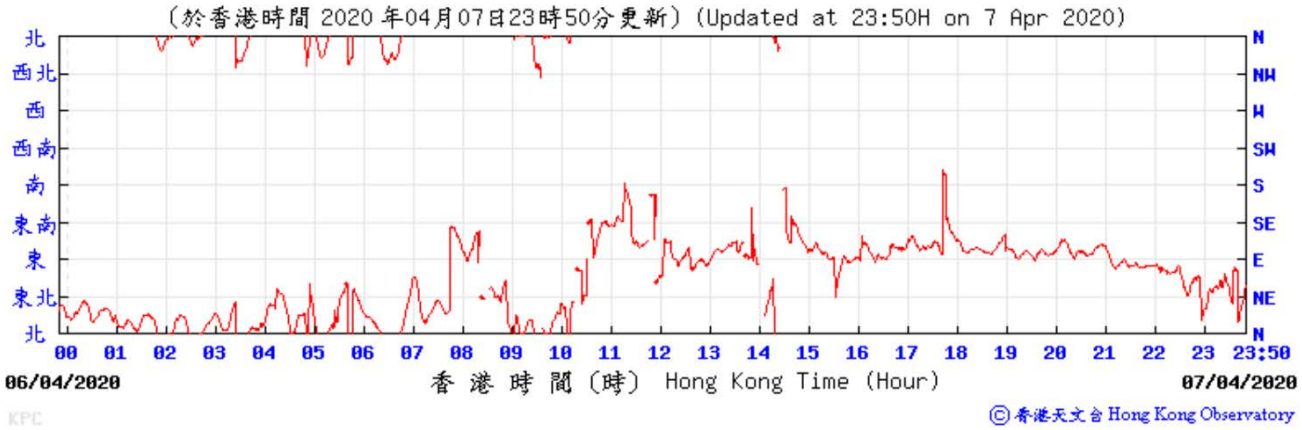

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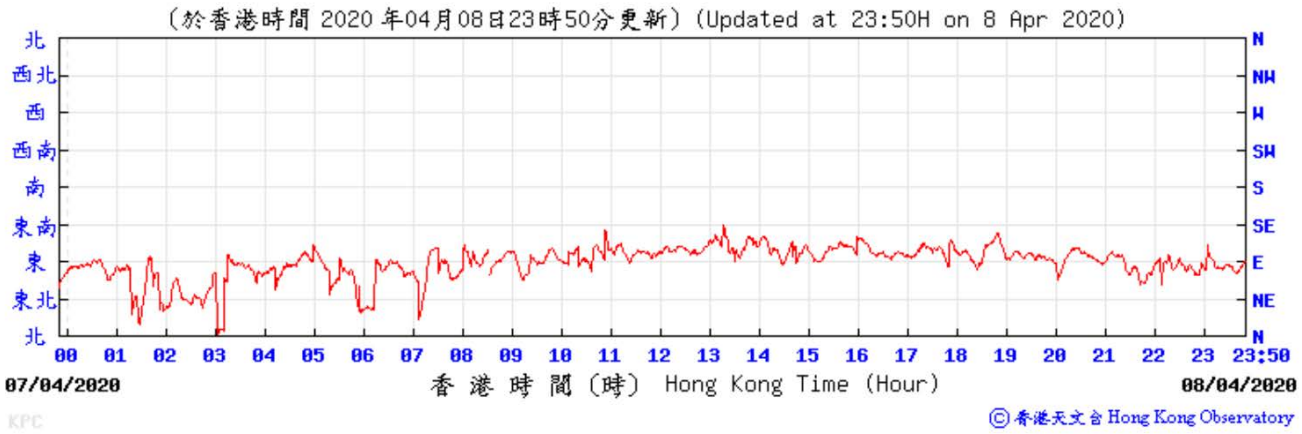
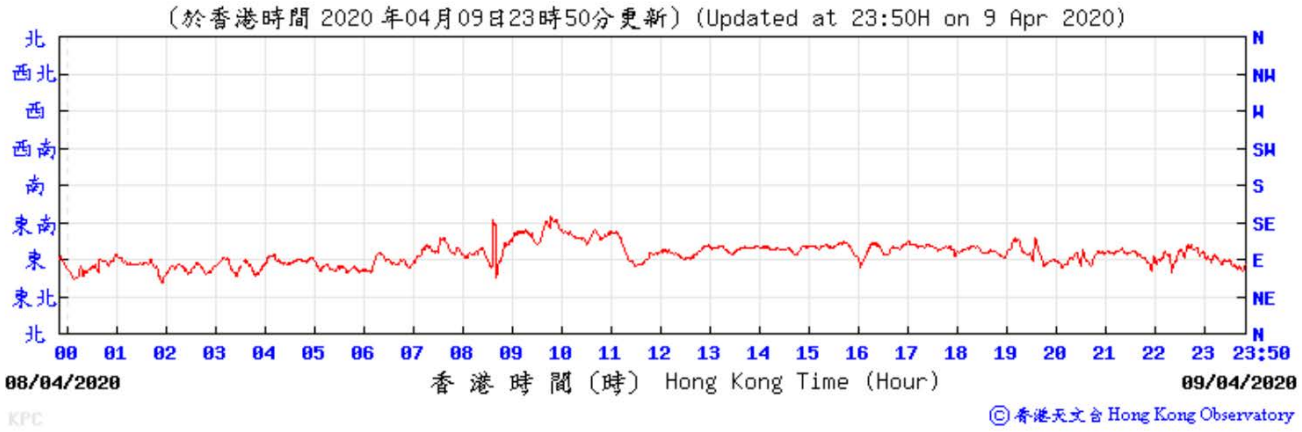


Wind Direction:



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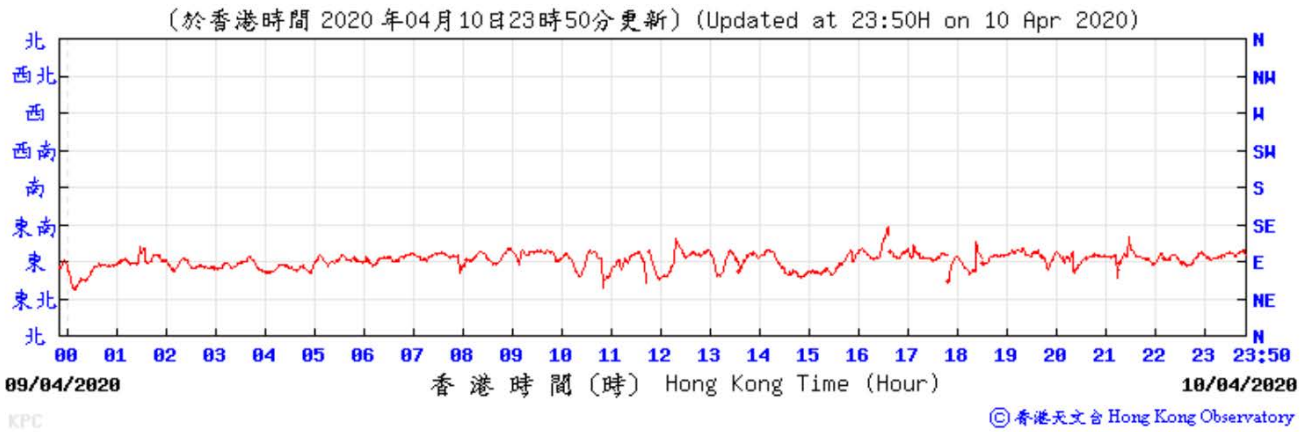

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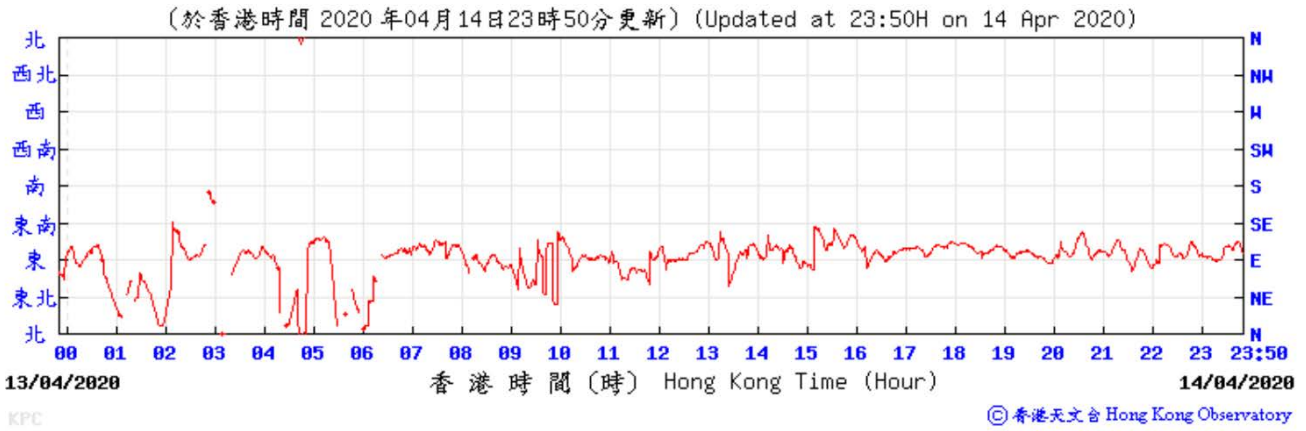
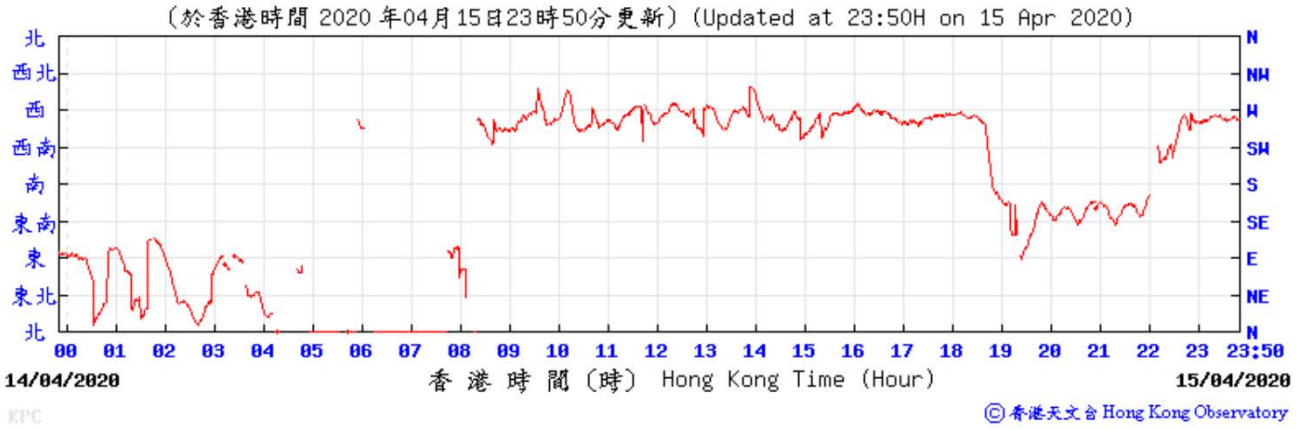


Wind Direction:



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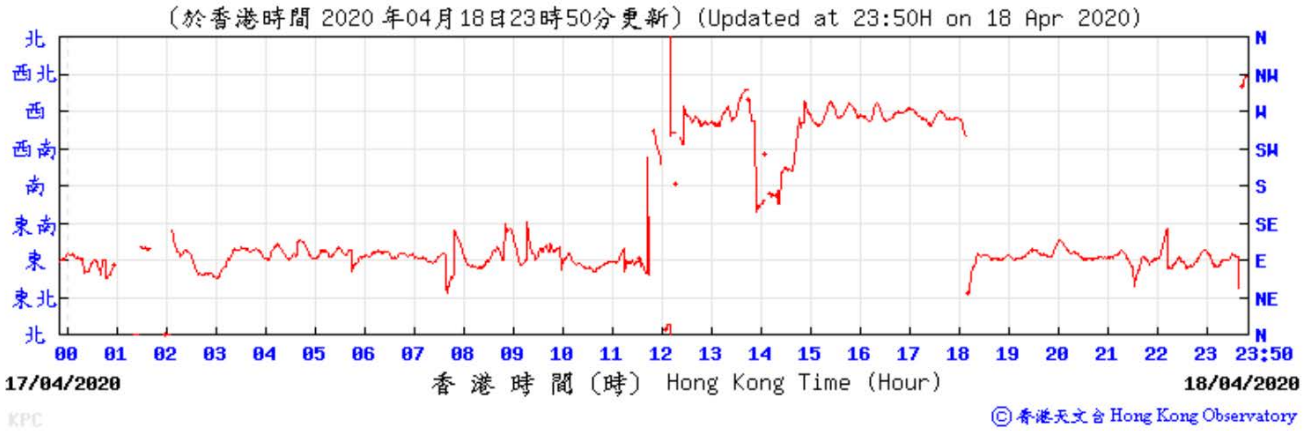

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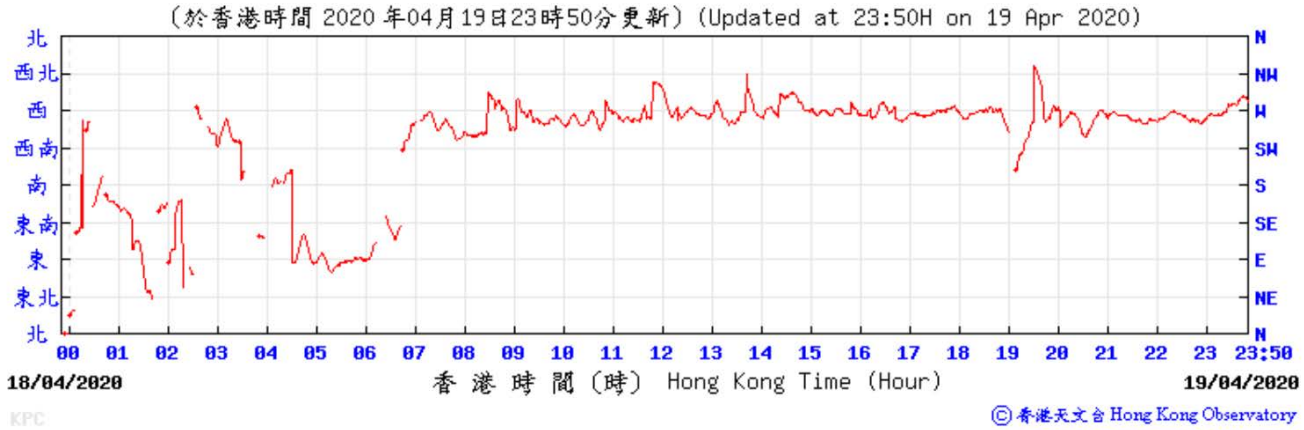

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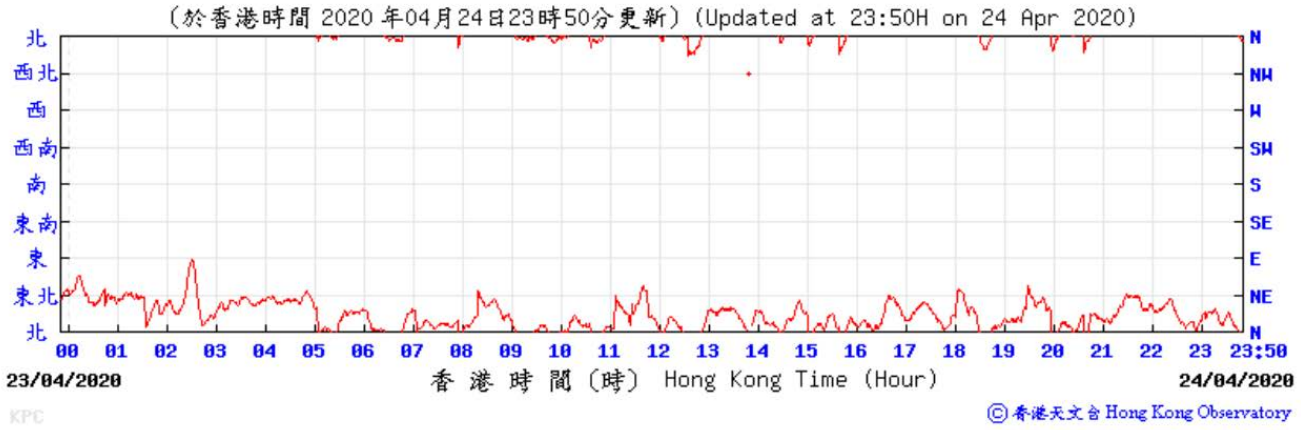

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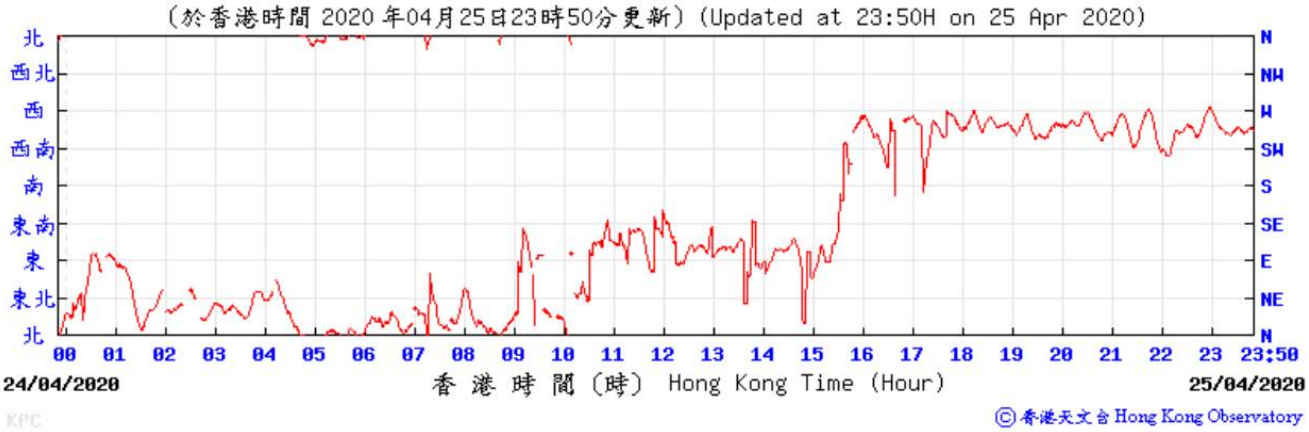
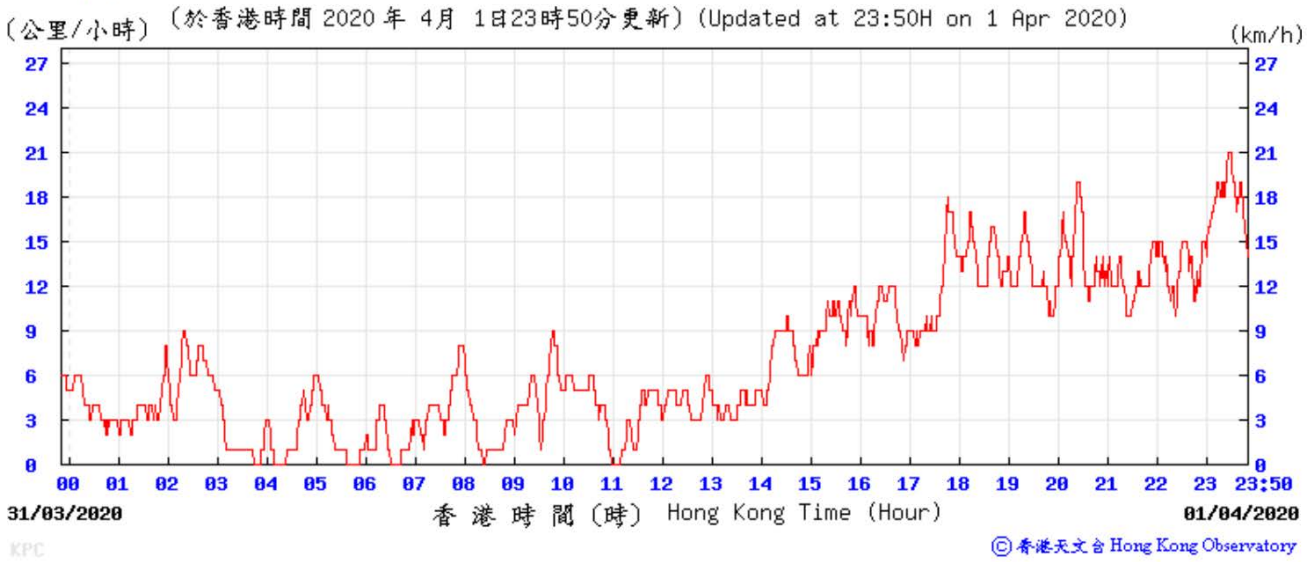


Wind Direction:

Wind Direction:

WIND SPEED DATA FOR 1, 2, 7, 8, 9, 10, 14, 15, 18, 19, 24, 25, 28, 29 April 2020

Wind Speed:



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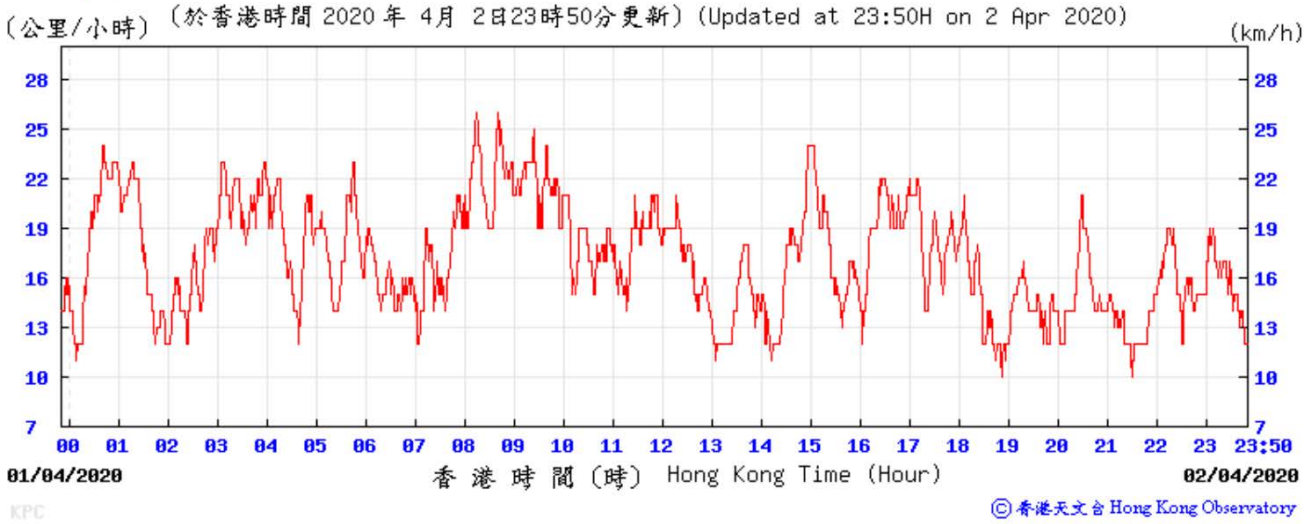

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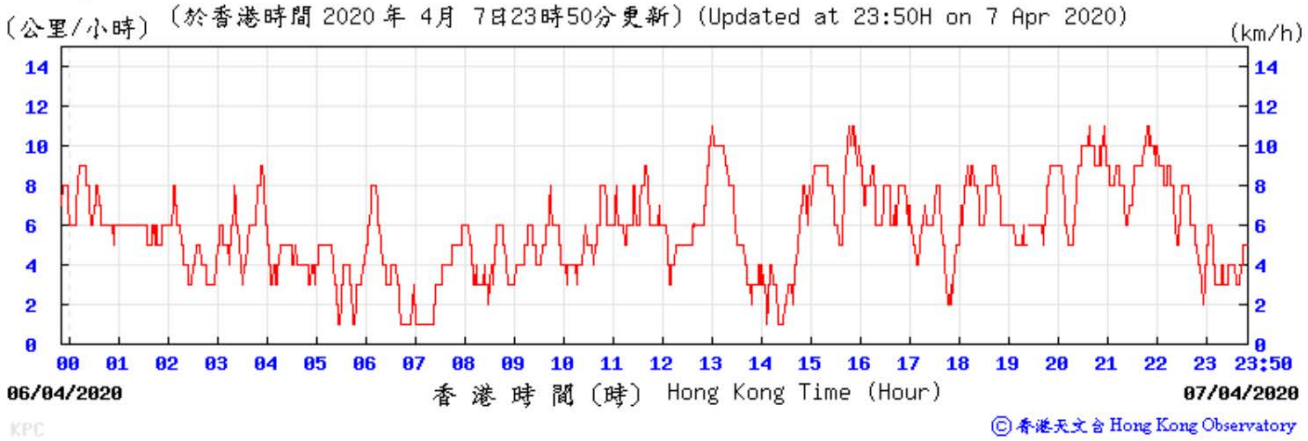

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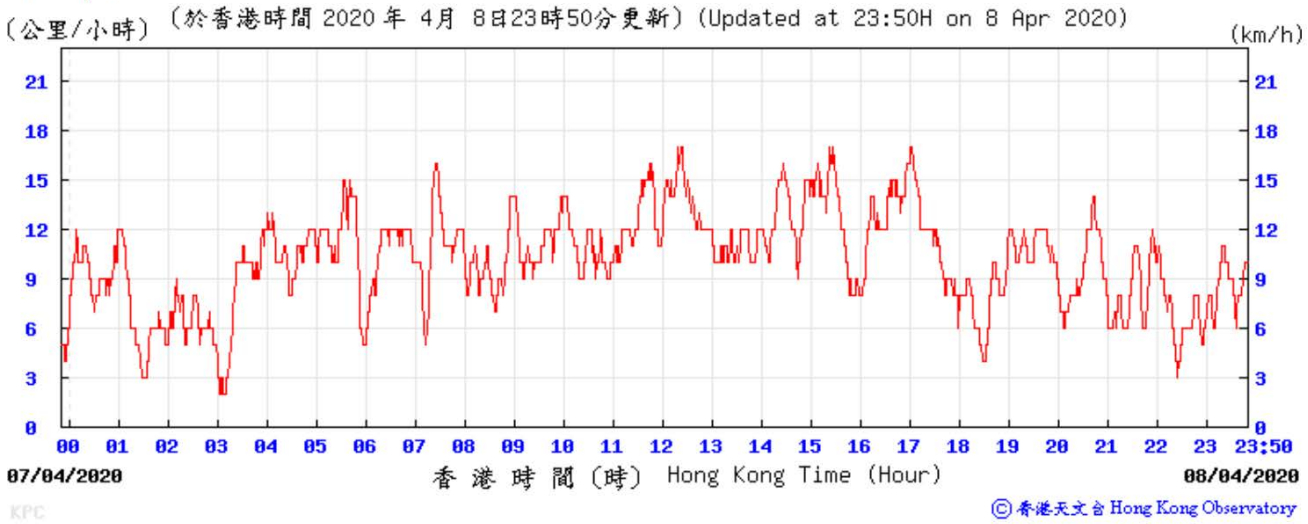
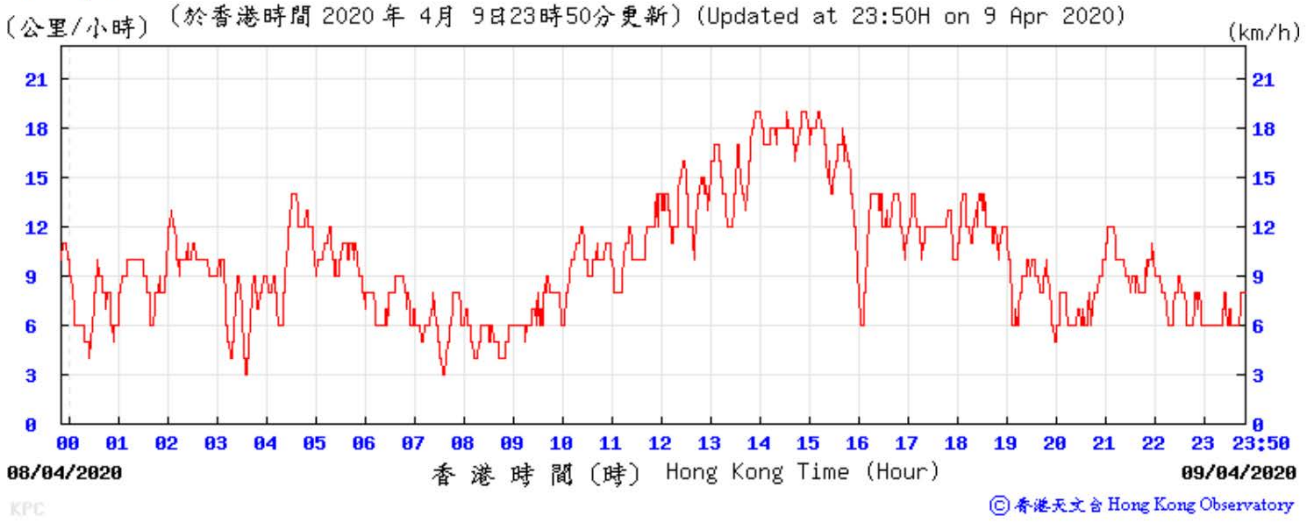


Wind Speed:



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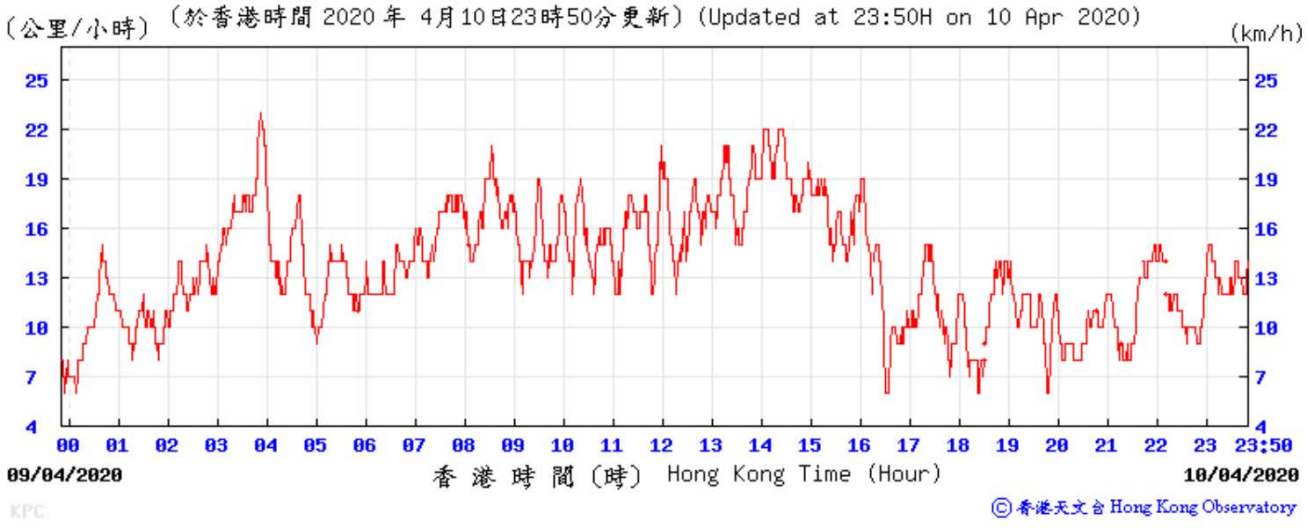

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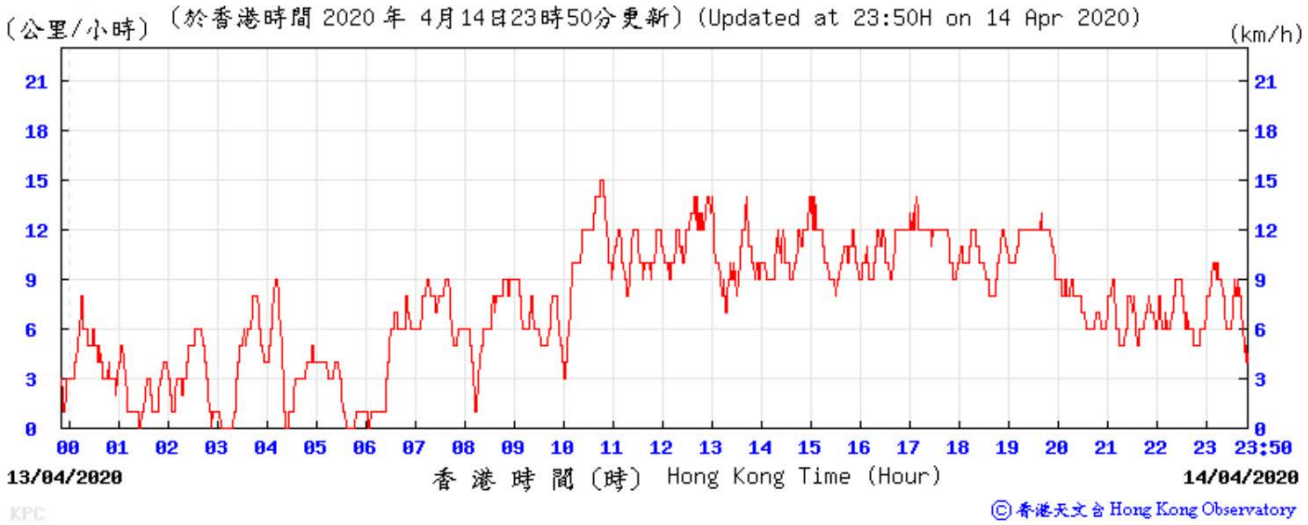

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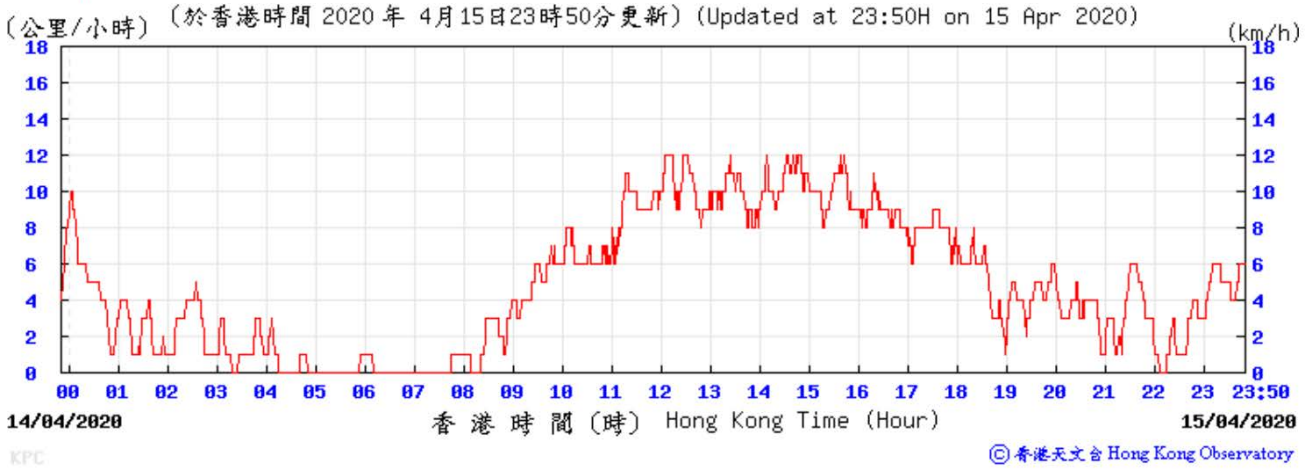
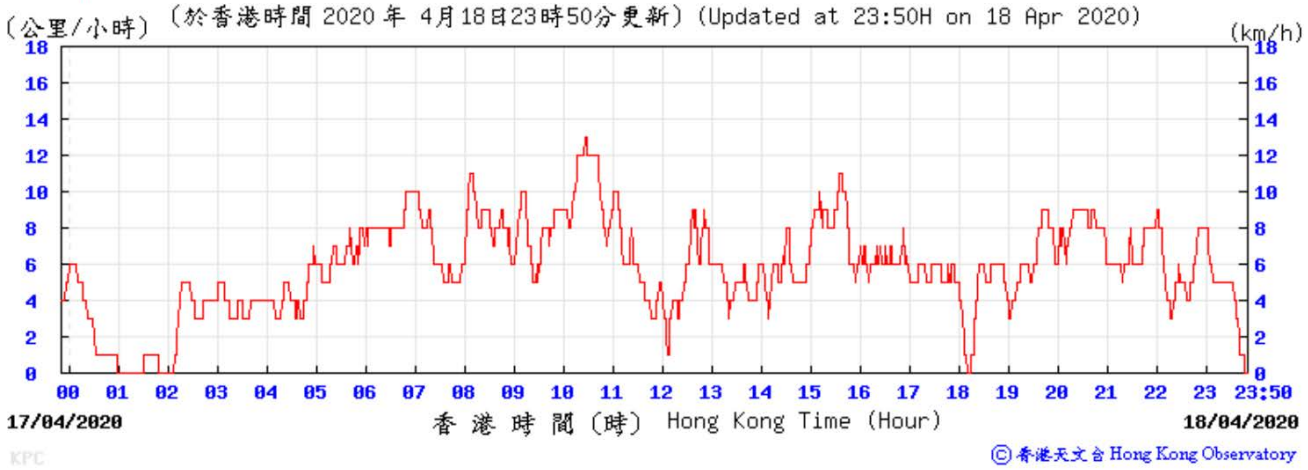
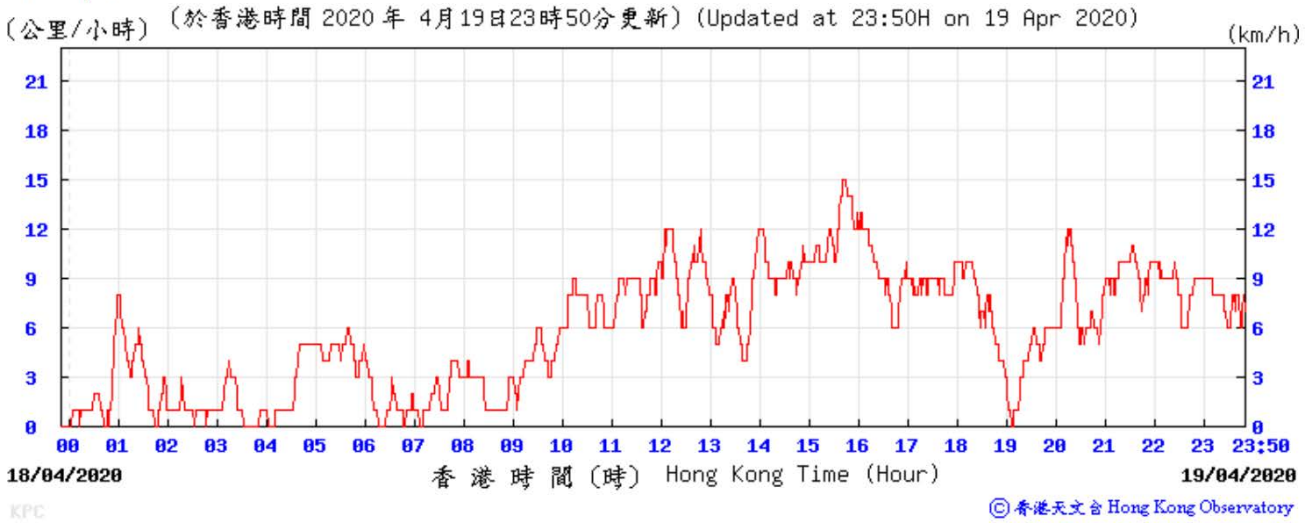


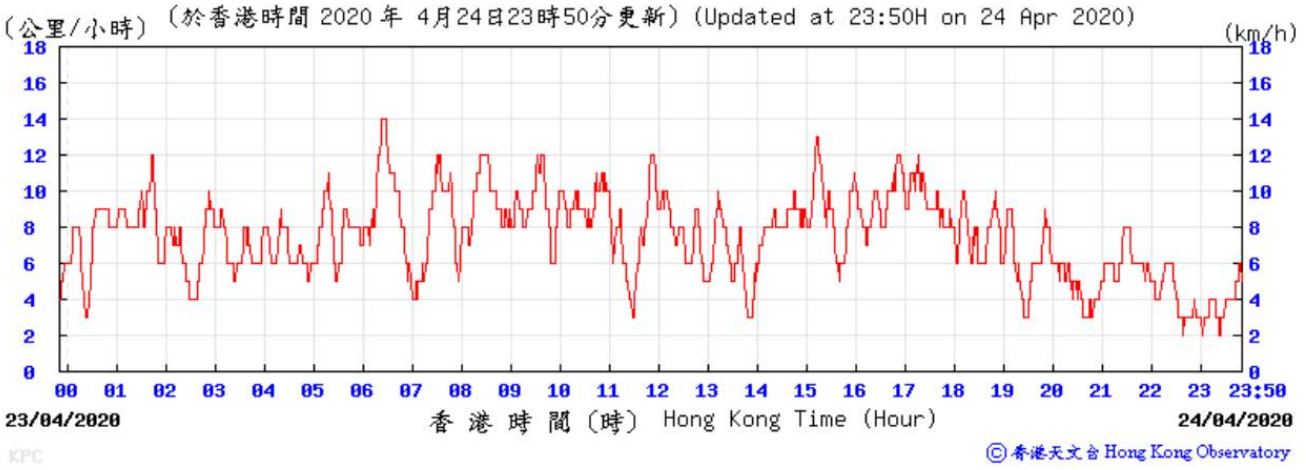
Wind Speed:



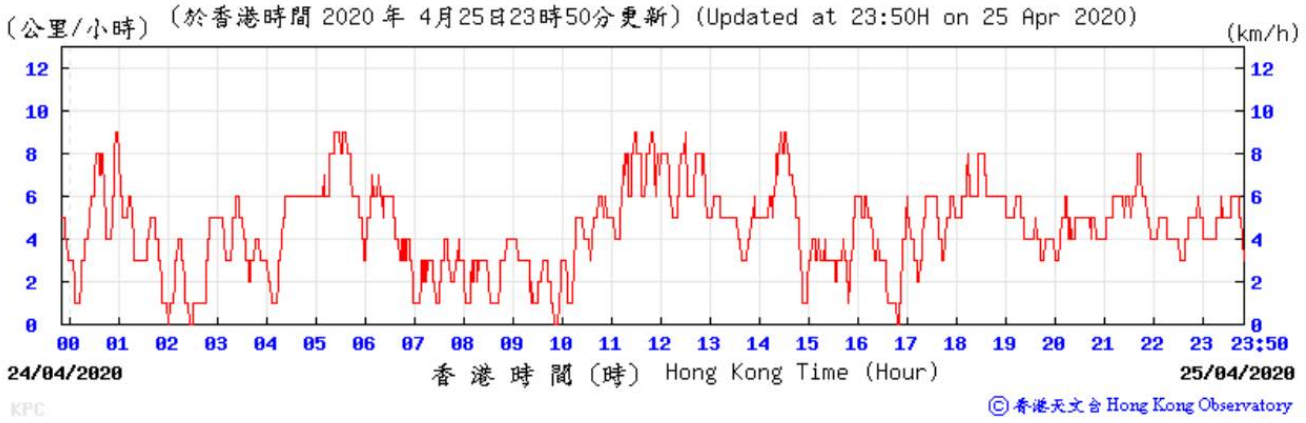
Wind Speed:



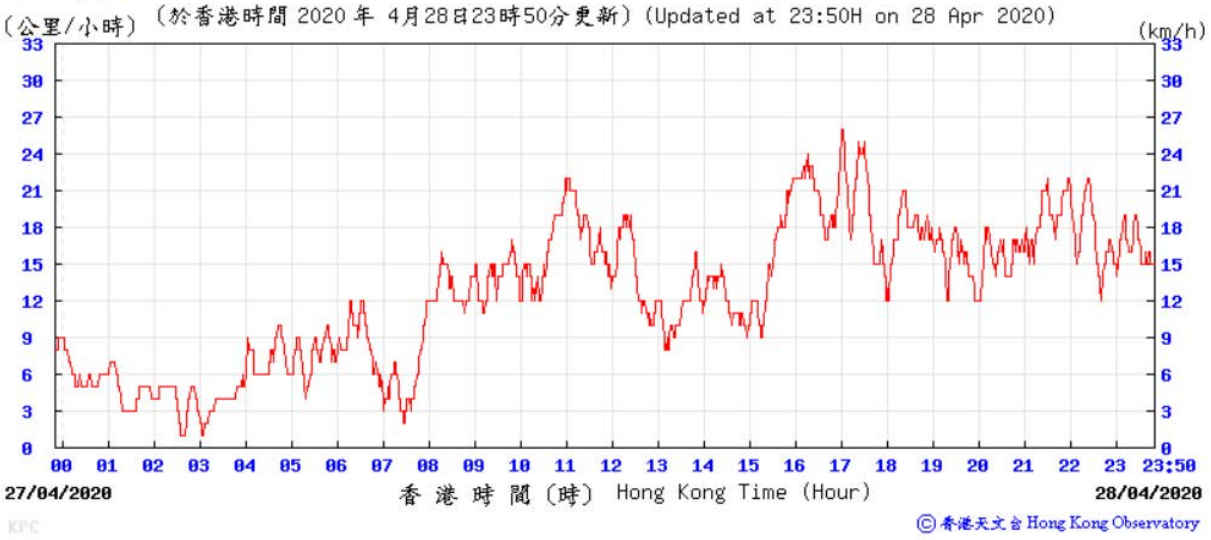
Wind Speed:



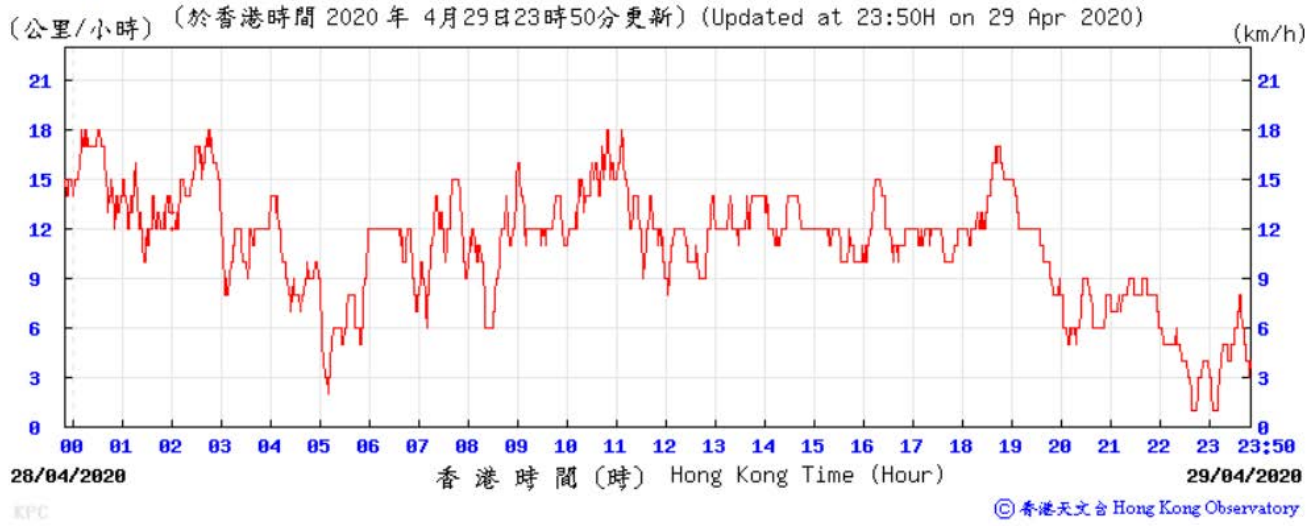
Wind Speed:



Wind Speed:



Wind Speed:



Appendix K
Waste Flow Table

flowMonthly Summary Waste Flow Table

Name of Department: Highways Department **Contract No. / Works Order No.: HY/2018/02**

Monthly Summary Waste Flow Table for April 2020

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 1 decimal place.)

Month		Actual Quantities of Inert Construction Waste Generated Monthly				
	(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)
2019	7773.8	340.0	140.0	0.0	6793.7	0.0
Jan-20	1634.6	0.0	0.0	0.0	1600.0	0.0
Feb-20	2142.4	0.0	0.0	0.0	2110.0	0.0
Mar-20	2743.4	0.0	140.0	0.0	2570.0	0.0
Apr-20	2631.8	0.0	0.0	0.0	2617.0	0.0
May-20	0.0	0.0	0.0	0.0	0.0	0.0
Jun-20	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	9152.2	0.0	140.0	0.0	8897.0	0.0
Jul-20	0.0	0.0	0.0	0.0	0.0	0.0
Aug-20	0.0	0.0	0.0	0.0	0.0	0.0
Sep-20	0.0	0.0	0.0	0.0	0.0	0.0
Oct-20	0.0	0.0	0.0	0.0	0.0	0.0
Nov-20	0.0	0.0	0.0	0.0	0.0	0.0
Dec-20	0.0	0.0	0.0	0.0	0.0	0.0
Total	9152.2	0.0	0.0	0.0	8897.0	0.0

Month	Actual Quantities of Non-inert Construction Waste Generated Monthly								
	(g) Metals		(h) Paper/ cardboard packaging		(i) Plastics		(j) Chemical Waste		(k) Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
2019	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	500.0
Jan-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6
Feb-20	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4
Mar-20	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	32.8
Apr-20	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	14.7
May-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jun-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	0.0	12.0	0.7	0.7	0.0	0.0	0.0	0.0	102.5
Jul-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Aug-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sep-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oct-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nov-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dec-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	12.0	0.7	0.7	0.0	0.0	0.0	0.0	102.5

Appendix L
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

Reporting Period	**Environmental Complaint Statistics**		
	Frequency	**Cumulative**	**Complaint Nature**
1 April 2020- 30 April 2020	0	0	N/A

Statistical Summary of Environmental Non-compliance

Reporting Period	**Environmental Non-compliance Statistics**		
	Frequency	**Cumulative**	**Details**
1 April 2020- 30 April 2020	0	0	N/A

Statistical Summary of Environmental Summons

Reporting Period	**Environmental Summons Statistics**		
	Frequency	**Cumulative**	**Details**
1 April 2020- 30 April 2020	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	**Environmental Prosecution Statistics**		
	Frequency	**Cumulative**	**Details**
1 April 2020- 30 April 2020	0	0	N/A

Appendix M
Monitoring Schedule of the Coming Month

五月 2020

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