





Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 69 (Period from 1 April to 30 April 2024)

April 2024 (Rev. 2)

	Prepared by:	Reviewed and Certified by:	
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Position	Environmental Team Member	Environmental Team Leader	
Signature	Alim	A	
Date:	16 May 2024	16 May 2024	



Water Supplies Department New Works Branch Construction Division 11 Tai Yip Lane Kowloon Bay Kowloon Hong Kong

Your reference:

Our reference:

HKWSD201/50/109773

Date: 20 May 2024

Attention: Mr Henry Chan

BY POST

Dear Sirs

Quotation Ref. No. WQ/17/A071 Independent Environmental Checker for Water Supplies Department – Proposed Desalination Plant in TKO Area 137 for Contract No. 13/WSD/16 Verification of Monthly EM&A Report No. 69

We refer to emails of 8 and 16 May 2024 attaching Monthly EM&A Report No. 69 for the captioned project prepared by the ET.

We have no further comment and hereby verify the captioned report in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/B.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned or our Mr Louis Kwan 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

am

James Choi Independent Environmental Checker

CPSJ/KSYL/csym

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Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	1 st Submission	08/05/2024
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CONTENT

4	Executive Summary	-
1.	Basic Project Information	7
2.	Noise Monitoring	10
3.	Waste management	14
4.	Landfill gas monitoring	15
5.	Summary of Exceedance, Complaints, Notification of Summons and Prosecutions	23
6.	EM&A Site Inspection	25
7.	Future Key Issues	26
8.	Conclusion and Recommendations	27

Appendix A	Construction Programme
Appendix B	Overview of Mainlaying in Tseung Kwan O
Appendix C	Summary of Implementation Status of Environmental Mitigation
Appendix D	Impact Monitoring Schedule of the Reporting Month
Appendix E	Noise Monitoring Equipment Calibration Certificate
Appendix F	Event/Action Plan for Noise Exceedance
Appendix G	Noise Monitoring Data
Appendix H	Waste Flow Table
Appendix I	Landfill Gas Monitoring Equipment Calibration Certificate
Appendix J	Landfill Gas Monitoring Data
Appendix K	Complaint Log and Regulatory Compliance Proforma
Appendix L	Site Inspection Proforma
Appendix M	Proactive Environmental Protection Proforma
Appendix N	Impact Monitoring Schedule of Next Reporting Month
Appendix O	Academic Calendar(s)



EXECUTIVE SUMMARY

Introduction

- A1. Penta-Ocean Concentric Joint Venture (POCJV) is contracted to carry out the Mainlaying in Tseung Kwan O under Contract No. 13/WSD/16 (hereinafter known as "the Project").
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 69th Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan 0 (TKO) during the reporting period from 1 April to 30 April 2024.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, landscape and visual and ecology.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

Location	Construction activities carried in the reporting month
Wan Po Road and TKO Area 137	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
HK Velodrome	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Po Lam Road South / Ling Hong Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Tsui Lam Road / Abandoned Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers

A5. Key works carried out in this reporting period for the Project included the followings:

- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from road reinstatement and chambers construction;
 - Waste generation from the construction activities; and
 - Impact on water quality from construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Reduction of construction dust generation from road reinstatement and chambers construction;



- Reduction of noise from equipment and machinery on-site;
- Sorting and storage of general refuse and construction waste; and
- Treatment of wastewater through water treatment facilities before discharge

Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was scheduled in the reporting month for NSR4 Creative Secondary School on 6, 12, 18, 24 and 30 April 2024 as construction works were conducted within 300m to the noise sensitive receiver. No Action or Limit Level exceedance was recorded during the reporting period.
- A9. Water quality monitoring was carried out during the disinfection procedure. According to Water Supply Department, the discharge of dechlorinated effluent arranged on 13 19 December 2023 and TRC monitoring at the sampling locations (outlet of the Service Reservoir) was carried out during the discharge. The TRC for the discharge are recorded less than 0.1mg/L and all results are below the action level.
- A10. According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.

Complaint Handling and Prosecution

A11. No environmental complaint was received in the reporting month. No notifications of summons and prosecution was received in the reporting month.

Reporting Change

A12. There were no changes reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

A13. Key works in the next reporting month for the Project will include the followings:

Location	Construction activities to be carried out in next reporting month		
Wan Po Road and TKO Area 137	 Road pavement reinstatement Remaining works installation of accessories for completed chambers 		
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Road pavement reinstatement Remaining works installation of accessories for completed chambers 		
HK Velodrome	 Road pavement reinstatement Remaining works installation of accessories for completed chambers 		
Po Lam Road South / Ling Hong Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers 		
Tsui Lam Road / Abandoned Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers 		

A14. The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of road reinstatement and chambers construction;
- Waste generation from construction activities; and



- Impact on water quality from construction activities.
- A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Reduction of construction dust generation of road reinstatement and chambers construction by regular water spraying and covering of dusty materials with screenings;
 - Reduction of noise from equipment and machinery on-site;
 - Sorting and storage of general refuse and construction waste; and



1. BASIC PROJECT INFORMATION

1.1. Background

The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million liters per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative freshwater resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Variation of Environmental Permit (No. EP-503/2015/B) and Further Environmental Permit (No. FEP-503/2015/B) to Water Supplies Department (WSD) for the Project on 3 April 2024.

The scope of the Contract may be considered in brief, to consist of the laying of about 10 km long 1200 mm diameter freshwater mains and the associated works along the alignment of the Project as shown with the overall view in **Appendix B**.

1.2. The Reporting Scope

This is the 69th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April to 30 April 2024.

Project Organization

The Project Organization structure for Construction Phase is presented in **Figure 1.1**.





Figure 1.1 Project Organization Chart

Contact details of the key personnel are presented in **Table 1.1** below:

Party	Position	Name	Telephone no.
Penta-Ocean - Concentric Joint Venture	Environmental Officer	Calvin Chik	9863 5630
Acuity Sustainability Consulting Limited	Environmental Team Leader	Jacky Leung	2698 6833
ANewR Consulting Limited	0 1		2618 2831

Table 1.1 Contact details of the key personnel

1.3. Summary of Construction Works

Details of the major construction works undertaken in this reporting period are shown in **Table 1.2** and the construction works locations are shown in **Appendix B**. The construction programme is presented in **Appendix A**.

Location	Construction activities carried out in the reporting month
Wan Po Road and TKO Area 137	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
HK Velodrome	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Po Lam Road South / Ling Hong Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Tsui Lam Road / Abandoned Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers

Table 1.2Summary of the Construction Works Undertaken during the Reporting Month

A summary of the valid permits, licences, and or notifications on environmental protection for this Project is presented in **Table 1.3**.

Table 1.3 Summary of the Status of Environmental Licence, Notification and Permit

Reference No.	Valid Period		Status	Remark
Reference No.	From	То	Status	Kemai K
Environmental Permit				
EP-503/2015/A				New EP was issued on 3 April 2024.
FEP-01/503/2015/A				New EP was issued on 3 April 2024.



Reference No.	Valid Period		Status	Remark	
Kelei elice No.	From	То	Status	Remark	
EP-503/2015/B			Valid	N/A	
FEP-01/503/2015/B			Valid	N/A	
Notification of Construc	ction Works und	ler the Air Pollu	tion Contro	ol (Construction Dust) Regulation	
423775			Valid	N/A	
Chemical Waste Produc	Chemical Waste Producer Registration				
5213-839-P3287-01			Valid	N/A	
Billing Account for Disposal of Construction Waste					
A/C no.: 7029491			Valid	N/A	
Water Discharge Licenc	Water Discharge Licence				
WT0002035-2023	16 Feb 2024	31 Dec 2028	Valid	N/A	

The status for all environmental aspects is presented **Table 1.4**.

Parameters	Parameters Status		
Noise			
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4.		
Impact Monitoring	On-going		
	Water		
Impact monitoring of disinfection procedure			
	Waste Management		
Mitigation Measures in Waste Management Plan On-going			
Landfill Gas			
Impact Monitoring Ceased from February 2024			
Environmental Audit			
Site Inspection On-going			

Other than the EM&A works by ET, regular environmental management meetings were conducted in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.



2. NOISE MONITORING

2.1. Monitoring Requirements

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 – Creative Secondary School, (ii) NSR24 – PLK Laws Foundation College, and (iii) NSR31 – School of Continuing and Professional Studies – CUHK respectively.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 6, 12, 18, 24 and 30 April 2024 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

2.2. Noise Monitoring Parameters, Time, Frequency

Impact noise monitoring was conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works will follow the requirements as stipulated in the valid CNPs if works have to be conducted in the restricted hours.

Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (L_{Aeq}). $L_{eq 30min}$ was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency, and duration of the impact noise monitoring. The monitoring schedule is provided in **Appendix D**.

Table 2.1 Noise Monitoring Parameters, Time,	, Frequency and Duration
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Time	Frequency	Duration	Parameters
Daytime: 0700-1900	Once per week	$\begin{array}{c} Continuously \ in \\ L_{eq \ 5min}/L_{eq \ 30min} \ (average \ of \ 6 \\ consecutive \ L_{eq \ 5min}) \end{array}$	L _{eq} , L ₁₀ & L ₉₀

2.3. Noise Monitoring Locations

The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

Table 2.2Noise Monitoring Location



Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.







2.4. Impact Monitoring Methodology

Integrated sound level meters were used for the noise monitoring. The meters were in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meters was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level before and after the noise measurements agree to within 1.0 dB(A).

Calibration certificates of the instruments used are presented in **Appendix E**. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Equipment	Brand and Model	Serial Number	Date of Calibration	Expiry Date
Sound Level Meter	SVANTEK 971	C132261	27 Oct 2023	26 Oct 2024
Sound Level Meter Calibrator	RION NC-75	35124527	27 Oct 2023	26 Oct 2024
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	Nil	Nil



2.5. Action and Limit Levels

The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.4**.

Table 2.4Action and Limit Levels for Noise

Time Period	Action Level	Limit Level (dB(A))	
0700-1900 on normal weekdays	When one documented complaint is received from any one of the noise sensitive receivers		
Notes: (a) Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively.			

If exceedances are found during noise monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix F**.

2.6. Monitoring Results and Observations

Referring to EM&A Manual Section 4.1.2, impact monitoring for noise impact was scheduled weekly in the reporting month for NSR4 – Creative Secondary School on 6, 12, 18, 24 and 30 April 2024. Detailed monitoring results are presented in **Appendix G**.

No construction works were conducted within 300m radius of NSR24 and NSR31. Thus, no construction noise monitoring works was carried at these two locations in the reporting month.

No action or limit level exceedance was recorded for construction noise monitoring during the reporting period.



3. WASTE MANAGEMENT

The waste generated from this Project includes inert construction and demolition (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 these 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 3.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.

Table 3.1 Quantities of waste generated from the Project

	Quantity					
			Non-inert C&D Materials			
Reporting period	Materials	Chemical Waste	Others, e.g., General Refuse	-	vcled materia	ıls
	(in '000m³) (in '000kg)	disposed at Landfill (in '000m ³)	Paper/cardboard (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)	
Apr 2024	0.119	0.000	0.002	0.031	0.000	0.000



4. LANDFILL GAS MONITORING

4.1. Monitoring Requirement

In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter fresh water mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

4.2. Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the Consultation Zone.

During construction of works within the consultation zones, excavations of 1m depth or more was monitored:

- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period when the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

For excavations between 300mm and 1m deep, measurements should be carried out:

- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.9**.























4.3. Monitoring Parameters

Landfill Gas monitoring was carried out to identify any migration between the landfill and the Project and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Project area.

The following parameters were monitored:

- Methane.
- Oxygen.
- Carbon Dioxide.
- Barometric Pressure.

4.4. Action and Limit Level

Action and Limit Level are provided in **Table 4.1**.

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

Parameters	Action Level	Limit Level
Oxygen (O ₂)	<19% O ₂	<19% O ₂
Methane (CH ₄)	>10% LEL	>20% LEL
Carbon Dioxide (CO ₂)	>0.5% CO ₂	>1.5% CO ₂

4.5. Monitoring Equipment

Landfill Gas monitoring was carried out using intrinsically safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:

- Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
- Capable of continuous barometric pressure and gas pressure measurements;
- Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
- Having low battery, fault and over range indication incorporated;
- Capable of storing monitoring data, and shall be capable of being down-loaded directly;
- Measure in the following ranges:

methane	0-100% Lower Explosion Limit (LEL) and 0-100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-5% v/v; and
barometric pressure	mBar (absolute)

alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

methane	>10% LEL;
oxygen	<19% by volume; and
carbon dioxide	>0.5% by volume
barometric pressure	mBar (absolute)

Monitoring Equipment used in the reporting period are summarised in **Table 5.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix I**.



Table 5.2	Landfill Gas Monitoring Equipment
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Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector		
CO2 Analyzer		

4.6. Monitoring Results

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

Parameters	Level	Action								
Oxygen (O_2)	Action Level < $19\% 0_2$	Ventilate trench/void to restore O_2 to > 19%								
<i>y</i> 0 (<i>-y</i>		Stop works								
	Limit Level < $19\% 0_2$	Evacuate personnel/prohibit entry								
		Increase ventilation to restore O_2 to > 19%								
		Post "No Smoking" signs								
	Action Level >10% LEL	Prohibit hot works								
Methane (CH ₄)		Increase ventilation to restore CH_4 to <10% LEL								
		Stop works								
	Limit Level >20% LEL	Evacuate personnel/prohibit entry								
		Increase ventilation to restore CH ₄ to<10% LEL								
Carbon Dioxide	Action Level $>0.5\%$ CO ₂	Ventilate to restore CO_2 to < 0.5%								
dai boni bioniae		Stop works								
(CO ₂)	Limit Level >1.5% CO ₂	Evacuate personnel / prohibit entry								
		Increase ventilation to restore CO_2 to <0.5%								

 Table 4.3
 Action and Limit Levels and Event and Action Plan for LFG Hazard



5. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in below **Figure 5.1**:



Figure 5.1 Environmental Complaint Handling Procedure



Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 6, 12, 18, 24 and 30 April 2024 was construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

No environmental complaint was received in the reporting period. No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix K**.



6. EM&A SITE INSPECTION

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, site inspections were carried out on 3, 12, 19 and 26 April 2024 at the site portions list in **Table 6.1** below. One joint site inspection with IEC was carried out on 26 April 2024.

Table 6.1 Site Inspection Record

Date	Inspected Site Portion	Time
03 April 2024	Portion J	09:30 - 10:30
12 April 2024	Portion J	09:30 - 10:30
19 April 2024	Portion J	09:30 - 10:30
26 April 2024	Portion J	09:30 - 10:30

Minor deficiencies were observed during weekly site inspections. Key observations during the site inspections are summarized in **Table 6.2**.

Date	Environmental Observations	Follow-up Status
03 April 2024	No major environmental deficiency was observed during site inspection.	N.A.
12 April 2024	No major environmental deficiency was observed during site inspection.	N.A.
19 April 2024	No major environmental deficiency was observed during site inspection.	N.A.
26 April 2024	No major environmental deficiency was observed during site inspection.	N.A.

Table 6.2 Site Observations

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

Site inspection proforma of the reporting period is provided in **Appendix L**.



7. FUTURE KEY ISSUES

Key works that will be anticipated in the next reporting period for the Project are shown in **Table 7.1**.

Table 7.1. Key works for the next reporting mon	th
Table 7.1. Key works for the next reporting mon	UII

Location	Construction activities to be carried out in next reporting month
Wan Po Road and TKO Area 137	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
HK Velodrome	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Po Lam Road South / Ling Hong Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers
Tsui Lam Road / Abandoned Road	 Road pavement reinstatement Remaining works installation of accessories for completed chambers

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of road reinstatement and remaining chambers construction;
- Waste generation from construction activities; and
- Impact on water quality from construction activities.

The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Dust suppression by regular wetting and water spraying for Road reinstatement and remaining chambers construction;
- Reduction of noise from equipment and machinery on-site;
- Sorting and storage of general refuse and construction waste; and

The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

The tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.



8. CONCLUSION AND RECOMMENDATIONS

This is the 69th monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 April to 30 April 2024 in accordance with the EM&A Manual and the requirement under EP-503/2015/B and FEP-01/503/2015/B.

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 6, 12, 18, 24 and 30 April 2024 as construction works were conducted within 300m to the noise sensitive received. No action and limit level exceedance for construction noise monitoring was recorded in the reporting period.

Water quality monitoring was carried out during the disinfection procedure. According to Water Supply Department, the discharge of dechlorinated effluent arranged on 13 – 19 December 2023 and TRC monitoring at the sampling locations (outlet of the Service Reservoir) was carried out during the discharge. The TRC for the discharge are recorded less than 0.1mg/L and all results are below the action level.

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

Weekly environmental site inspections were conducted during the reporting month. Observations and Recommendation were made during site inspection, Contractor was reminded that sedimentation facilities shall be provided on site to remove silt particles from runoff before discharge and to meet the requirements of the TM standard under the WPCO.

According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, water treatment facilities, and proper materials storage.

No environmental complaint was received in the reporting month. No notification of summons and prosecution was received in the reporting month.

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



aurecon



Construction Programme

Penta Ocean – Concentric JV	
Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O	
Narrative for Project Programme (Rev. 17)	Date: 19 January 2024
	Page: 20

Full Project Programme

																		Original Con	ntract due	20	E28: 0/5/2022 :e: CE5:	51: CEST	27/7/2 7(Section II):		Completion	
D Ta	ask Nume	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Contract No. 13/WSD/1 Total Slack Duration	6 - Mainlayi	ng in Tseung Kwan	Actual Finish	2018 Q1 Q	2019 2 Q3 Q4 Q1 Q2	03 04	2020 Q1 Q1 D J F M A M J	Q3 Q4	Date: 18/5/2	/2021	14/4/2022	6/10	0/2022 7/2/2 2023	and the second	101120400000	2024	3 Q3
. (ys <mark>7/11/17</mark>	9/11/24	None			0 days	0 days 1829 days	90%	7/11/17	0 NA		MJJJASÕNDJFMÄI						NDJFM	the literature in the	S. IND J	MAMJ	ASIC 7D	JEMAMJ	JJAS
	Contract Date	0 days	rs 7/11/17 7/11/17	9/11/24 7/11/17	None Calendar Day		76,77,78,79,80,81,82,83		0 days 1829 days 0 days 0 days	0% 100% 100%	7/11/17 7/11/17 16/11/17	7/11/17	7/11													
	Access Date of Portion 'A', 'B', 'C', 'D', 'E', 'F' and 'G'	0 days 0 days	16/11/17 16/11/17	16/11/17 16/11/17	Calendar Day Calendar Day		87,90,103,114,116,118,		0 days 0 days 0 days 0 days	100%	16/11/17	16/11/17 16/11/17	♦ 16/11		102											
	Contract Completion Date	0 days 0 days	10/8/19 18/5/21	10/8/19 18/5/21	Calendar Day Calendar Day		573	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	10/8/19 18/5/21	10/8/19 18/5/21			10/8				18/5							
	Planned Completion	0 days 0 days	11/2/22 10/11/23	11/2/22 10/11/23	Calendar Day Calendar Day	860,861	10FS+365 days	0 days 0 days	0 days 0 days 0 days 0 days	100% 0%	11/2/22 NA	11/2/22 NA												▶ 10	л	
10 11		0 days 1316 day	9/11/24 s 12/6/18	9/11/24 18/1/22	Calendar Day Calendar Day	9FS+365 days		0 days 0 days	0 days 0 days 0 days 1316 days	0% 0%	NA 12/6/18	NA		│ │ _┛ ┽╪╪╪╪╪╪╪╪╪╪╪╪	+++++			┝┼┼┼ <mark></mark>	┝┼┼┼┼	┍┿┿┥║╎╵						
12		0 days 0 days	12/6/18 12/7/18	12/6/18 12/7/18	Calendar Day Calendar Day		110,133,137,138	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	12/6/18 12/7/18	12/6/18 12/7/18		 12/6 ◆ 12/7 												
4		0 days 0 days	23/8/18 23/8/18	23/8/18 23/8/18	Calendar Day Calendar Day		204	0 days 0 days	O days O days O days O days	100% 100%	23/8/18 23/8/18	23/8/18 23/8/18		 2/3/8 2/3/8 2/3/8 												
6 7		O days O days	16/11/18 4/12/18	16/11/18 4/12/18	Calendar Day Calendar Day		863	0 days 0 days	O days O days O days O days	100% 100%	16/11/18 4/12/18	16/11/18 4/12/18		◆ 16/11 > 4/12												
8 9	CEO7 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H' CEO6 - Unforeseen Underground Conditions during Trench Excavation for Mainlaying at	0 days 0 days	22/1/19 1/2/19	22/1/19 1/2/19	Calendar Day Calendar Day		744	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	22/1/19 1/2/19	22/1/19 1/2/19		◆ 1/2												
0	Wan Po Road between CH.A6+90 and CH.A7+10 CE10 - Contractor's Design of The Realignments	0 days	28/2/19	28/2/19	Calendar Day		589,205	0 days	0 days 0 days	100%	28/2/19	28/2/19		◆ 28/2												
1	CE14 - Manhole Inspection of Existing Drain/Outfall near HKVD and TKO Stage I Landfill and CCTV Survey of Existing Drain at Cycle Track near HKVD		2/4/19	2/4/19	Calendar Day			0 days	0 days 0 days	100%	2/4/19	2/4/19		2	4											
2	CE12 - Provision of Suitabel Land Transport for Site Supervision in Tseung Kwan O Area 137	0 days	12/4/19	12/4/19	Calendar Day			0 days	0 days 0 days	100%	12/4/19	12/4/19		•	2/4											
23		0 days 0 days	15/5/19 17/5/19	15/5/19 17/5/19	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	15/5/19 17/5/19	15/5/19 17/5/19			15/5				(
25	CE18 - Unforeseen Underground Conditions at Open Trench of Mainlaying at WPR betweem CH.A12+89 and CH.A13+04		27/5/19	27/5/19	Calendar Day			0 days	0 days 0 days	100%	27/5/19	27/5/19			• Z7//S											
!6 !7	CE23 - Inclement Weather in June 2018	0 days 0 days	19/6/19 24/7/19	19/6/19 24/7/19	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	19/6/19 24/7/19	19/6/19 24/7/19			 19/6 24/7 											
8 9	CE21 - Temporary Diversion of Unchartered Underground Utilities Near Wan O Road at	0 days 0 days	2/8/19 8/8/19	2/8/19 8/8/19	Calendar Day Calendar Day		352 351	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	2/8/19 8/8/19	2/8/19 8/8/19			 ₽ 2/8 ₽ 8/8 											
30		0 days	16/8/19	16/8/19	Calendar Day		144	0 days	0 days 0 days	100%	16/8/19	16/8/19			 16/8 											
31 32		0 days 0 days	22/8/19 23/9/19	22/8/19 23/9/19	Calendar Day Calendar Day		196 350	0 days 0 days	O days O days O days O days	100% 100%	22/8/19 23/9/19	22/8/19 23/9/19			 22/8 23/9 											
33	CE24 - Ground Investigation Works for Working Pit E, F & Trenchless Works across MTR's Tunnels	0 days	27/9/19	27/9/19	Calendar Day		412	0 days	0 days 0 days	100%	27/9/19	27/9/19			\$ 2775											
34 35		0 days 0 days	5/11/19 18/12/19	5/11/19 18/12/19	Calendar Day Calendar Day		294,475	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	5/11/19 18/12/19	5/11/19 18/12/19				√11 ◆ 18/12										
36 37		0 days 0 days	18/12/19 30/12/19	18/12/19 30/12/19	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	18/12/19 30/12/19	18/12/19 30/12/19				◆ 18/12 ◆ 30/12										
38	CE35 - Feasibility Study on the Alternative Alignment by Trenchless method beneath MTR's Tunnels in the Wan Po Road j/o Lohas Park Road	0 days	31/12/19	31/12/19	Calendar Day		206	0 days	0 days 0 days	100%	31/12/19	31/12/19				◆ 31/12										
39	CE17 - Realignment of Water Main by Trenchless Method in TKO Area 137 (CH.CC0+00 - CH.CC1+38 & CH.KC0+00 - CH.KC1+38)	0 days	3/1/20	3/1/20	Calendar Day		748	0 days	0 days 0 days	100%	3/1/20	3/1/20				≱1										
10		0 days 0 days	13/1/20 13/1/20	13/1/20 13/1/20	Calendar Day Calendar Day		507,508,477	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	13/1/20 13/1/20	13/1/20 13/1/20				 ◆ 13/1 ◆ 13/1 										
12	CE30 - Removal of Debris along the U-channel at Spots 4-7 Hiking Trail at Tsui Lam	0 days 0 days	14/1/20 21/1/20	14/1/20 21/1/20	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	14/1/20 21/1/20	14/1/20 21/1/20				 ● 14/1 ● 21/1 										
14	CE22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH.A6+54 and CH.A6+61		20/1/20	20/1/20	Calendar Day		174	0 days	0 days 0 days	100%	20/1/20	20/1/20				 20/1 										
45	CE49 - Provision of Suitatble Land Transport for Site Supervision in TKO Area 137 (Feb 2020 - Jan 2021)	0 days	28/2/20	28/2/20	Calendar Day		572	0 days	0 days 0 days	100%	28/2/20	28/2/20				◆ 28/2			(
46 47		0 days 0 days	28/2/20 6/4/20	28/2/20 6/4/20	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	28/2/20 6/4/20	28/2/20 6/4/20														
48	CE55 - Design of the Water Main Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam		5/5/20	5/5/20	Calendar Day		648	0 days	0 days 0 days	100%	5/5/20	5/5/20				► 5/5			(
49 50		0 days 0 days	13/5/20 22/5/20	13/5/20 22/5/20	Calendar Day Calendar Day			0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	13/5/20 22/5/20	13/5/20 22/5/20				• 13	5		(
51	CE36 - Realignment of Water Mains along the Bituminous Road adjacent to Lohas Park Road (Area A)	0 days	22/5/20	22/5/20	Calendar Day		272	0 days	0 days 0 days	100%	22/5/20	22/5/20				• 22	IS									
52	CE64 - Tree Survey at Tsui Lam (Location A and B) CE50 - Realignment of Water Mains at the Junction of WPR and PYP and the Junction of PHR	0 days 0 days	9/6/20 11/6/20	9/6/20 11/6/20	Calendar Day Calendar Day		477,556,557,562	0 days 0 days	0 days 0 days 0 days 0 days	100% 100%	9/6/20 11/6/20	9/6/20 11/6/20					11/6									
54	and PSR	0 days	16/6/20	16/6/20	Calendar Day		681	0 days	0 days 0 days	100%	16/6/20	16/6/20					16/6									
55		0 days 0 days	17/6/20 29/6/20	17/6/20 29/6/20	Calendar Day Calendar Day		176	Ο days Ο days	0 days 0 days 0 days 0 days	100% 100%	17/6/20 29/6/20	17/6/20 29/6/20					17/6 29/6									
57	between CH.A6+68 and CH.A6+88 CE28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and Tseung Kwan O	0 days	30/6/20	30/6/20	Calendar Day			0 days	0 days 0 days	100%	30/6/20	30/6/20					30/6									
58	Sports Ground CE68 - TIA for TTA at Po Lam Road	0 days	20/7/20	20/7/20	Calendar Day			0 days	0 days 0 days	100%	20/7/20	20/7/20					20/7									
59 50		0 days 0 days	3/8/20 11/6/20	3/8/20 11/6/20	Calendar Day Calendar Day		590,592,593,594,595,59 207	6 0 days 1613 days	0 days 0 days 1613 days 0 days	100% 0%	3/8/20 NA	3/8/20 NA					♦ \$\% 11/6									
51 52		0 days 0 days	22/12/20 27/5/21	22/12/20 27/5/21	Calendar Day Calendar Day		208 212	1419 days 1263 days	1419 days 0 days 1263 days 0 days	0% 0%	NA NA	NA NA					•	22/12	27/5							
53 64	CE59 - Realignment of Water Main near Pung Loi Road and Po Yap Round CE77 - Design of Water Main Structure and Modification Works to the Affected	0 days 0 days	13/11/20 21/10/20	13/11/20 21/10/20	Calendar Day Calendar Day		233 417	1458 days 1481 days	1458 days 0 days 1481 days 0 days	0% 0%	NA NA	NA					◆ 13 ◆ 21/1	\$/11 10								
65	Geotechnical Features in Wan Po Road and Lohas Park Road CE67 - Realignment of Water Main near Wan Po Road and Lohas Park Road	0 days	11/8/21	11/8/21	Calendar Day		422	1187 days	1187 days 0 days	0%	NA	NA							♦ 11/8							
56 57	CE98 - Tree Felling at Lohas Park Road CE94 - Site Clearance of Affected Trees and Plants for Mainlaying works near Po Hong Road	0 days 0 days	18/1/21 18/12/20	18/1/21 18/12/20	Calendar Day Calendar Day		427 485	1392 days 1423 days	1392 days 0 days 1423 days 0 days	0% 0%	NA NA	NA						◆ 18/1 18/12								
58	and Ling Hong Road CES7 - Realignment of Water Main by Trenchless Method in SENTX	Ο daγs	18/1/22	18/1/22	Calendar Day		752	1027 days	1027 days 0 days	0%	NA	NA								♦ 18/1						
i9 10	CE53, 61, 88, 89, 92 & 93 for Inclement Weather	0 days	6/4/20 s 7/11/17	6/4/20 26/12/21	Calendar Day Calendar Day			1679 days O days	1679 days 0 days 0 days 1511 days	0% 100%	NA 7/11/17	NA 26/12/21				> 5/4	++++		+++++	411						
1 2	Site Establishment	220 days		9/8/18 9/8/18	Calendar Day Calendar Day		73	0 days	0 days 220 days 0 days 90 days	100% 100%	2/1/18 12/5/18	9/8/18 9/8/18														
3 4	Completion of PM's and Contractor Accommodation	0 days	9/8/18 2/1/18	9/8/18 9/8/18 2/3/18	Calendar Day Calendar Day Calendar Day	72		0 days 0 days 0 days	0 days 90 days 0 days 0 days 0 days 60 days	100%	9/8/18 2/1/18	9/8/18 9/8/18 2/3/18		\$ 9/8												
5	Submission and Permit Application	1250 days	7/11/17	9/4/21	Calendar Day		00	0 days	0 days 1250 days	100%	7/11/17	9/4/21				++++++		┝┿┿┿║║								
5	Submission of Safety Plan	14 days 35 days	7/11/17 7/11/17 7/11/17	20/11/17 11/12/17	Calendar Day Calendar Day	3	88 88 107	0 days 0 days	0 days 14 days 0 days 35 days	100%	7/11/17 7/11/17	20/11/17 11/12/17														
3	Submission of Site Management Plan and Trip Ticket	45 days 45 days	7/11/17 7/11/17	21/12/17 21/12/17	Calendar Day Calendar Day	3	107 88	0 days 0 days	0 days 45 days 0 days 45 days	100%	7/11/17 7/11/17	21/12/17 21/12/17														
	Submission of Contractor's Other Key people	14 days 14 days	7/11/17 7/11/17	20/11/17 20/11/17	Calendar Day Calendar Day	3		0 days 0 days	0 days 14 days 0 days 14 days	100% 100%	7/11/17 7/11/17	20/11/17 20/11/17														
2	Submission of First Programme	30 days 7 days	7/11/17 7/11/17	6/12/17 13/11/17	Calendar Day Calendar Day	3		0 days 0 days	0 days 30 days 0 days 7 days	100% 100%	7/11/17 7/11/17	6/12/17 13/11/17														
4 5	Setting up of SLG and arrangement of 1st SLG meeting	180 days 45 days	7/11/17 16/12/17	5/5/18 29/1/18	Calendar Day Calendar Day	3 124	86,89,94	0 days 0 days	0 days 180 days 0 days 45 days	100% 100%	7/11/17 16/12/17	5/5/18 29/1/18														
	Liaison with Relevant Authorities for Road works	1084 days 64 days	30/1/18 16/11/17	17/1/21 18/1/18	Calendar Day Calendar Day	85 5	88,89	0 days 0 days	0 days 1084 days 0 days 64 days	100% 100%	30/1/18 16/11/17	17/1/21 18/1/18														
3	Application of 1st RWA	7 days 28 days	19/1/18 30/1/18	25/1/18 26/2/18	Calendar Day Calendar Day	79,76,87,77 85,87	92 93	0 days 0 days	0 days 7 days 0 days 28 days	100% 100%	19/1/18 30/1/18	25/1/18 26/2/18														
0	Submission of PN16 Pipe Material Approval of PN16 Pipe material submission	30 days 28 days	16/11/17 16/12/17	15/12/17 12/1/18	Calendar Day Calendar Day	5 90	91,150	0 days 0 days	0 days 30 days 0 days 28 days	100% 100%	16/11/17 16/12/17	15/12/17 12/1/18	†∔													
2	Application and Extension of RWA	1170 days	26/1/18 27/2/18	9/4/21 22/11/20	Calendar Day Calendar Day	88 89		0 days 0 days	0 days 1170 days 0 days 1000 days	100% 100%	26/1/18 27/2/18	9/4/21 22/11/20														
		et Summary		Inactive M		Marcial Task	Maga			and the second se	External Tasks	Deafine	•													

D Ta	ask. Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish	2018 Q1			2019 Q1 D J F M A M J J A	4 Q4 Q1	Q2
-	Regular SLG meeting	1040 days	30/1/18	4/12/20	Calendar Day	85		0 days	0 days 1040 days	100%	30/1/18	4/12/20	J F	MANI	ASON	A T T WAR T T T	I I I I I I I I I I I I I I I I I I I	ertwiwi 1 [1
	Submission of Method Statement (Open Cut)	14 days	15/2/18	28/2/18	Calendar Day	129		0 days	0 days 14 days	100%	15/2/18	28/2/18						
-	Submission of Method Statement (Pipe Jacking)	14 days	15/2/18	28/2/18	Calendar Day	129		0 days	0 days 14 days	100%	15/2/18	28/2/18	1					
	Submission of Temporary Design (Open Cut) Submission of Temporary Design (Pipe Jacking)	30 days 30 days	15/2/18 15/2/18	16/3/18 16/3/18	Calendar Day Calendar Day	129 129		0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	15/2/18 15/2/18	16/3/18 16/3/18						
	ICE Checking and Certificate (Open Cut)	7 days	17/3/18	23/3/18	Calendar Day	97,95		0 days	0 days 50 days	100%	17/3/18	23/3/18	1111					
0	ICE Checking & Certification for revised MS & temp. design (open cut)	1040 days	24/3/18	26/1/21	Calendar Day	99		0 days	0 days 1040 days	100%	24/3/18	26/1/21						
1	ICE Checking and Certificate (Pipe Jacking)	7 days	17/3/18	23/3/18	Calendar Day	96,98		0 days	0 days 7 days	100%	17/3/18	23/3/18						
2	ICE Checking & Certificate for revised MS & temp. design (pipe jacking)	1040 days		26/1/21	Calendar Day	101		0 days	0 days 1040 days	100%	24/3/18	26/1/21		1111	11111		1 - 1 - 1 - 1 - 1	1111
03	Submission and Approval of other materials		16/11/17 14/2/18	11/8/20 15/2/18	Calendar Day Calendar Day	5 131		0 days 0 days	0 days 1000 days 0 days 2 days	100%	16/11/17 14/2/18	11/8/20		1111				1111
05	Appointment of Environmental Team Environmental Baseline Monitoring	2 days 14 days	16/2/18	1/3/18	Calendar Day	104		0 days	0 days 14 days	100%	16/2/18	1/3/18						
16	Submission of Environmental Baseline Monitoring Report	14 days	2/3/18	15/3/18	Calendar Day	105		0 days	0 days 14 days	100%	2/3/18	15/3/18		•				
17	Environment Monitoring and EM&A	1070 days	16/3/18	17/2/21	Calendar Day	78,106		0 days	0 days 1070 days	100%	16/3/18	17/2/21				11111111		1111
08	As-constructed Drawing	1000 days		25/12/20	Calendar Day	143		0 days	0 days 1000 days	100%	1/4/18	25/12/20			11111	TTTTTT		1111
09	BIM model	1000 days		25/12/20	Calendar Day	147		0 days	0 days 1000 days	100%	1/4/18	25/12/20				11111111	1	1111
1	Submission of PN25 Pipes and Fittings for CE01	45 days	12/7/18	25/8/18 9/10/18	Calendar Day Calendar Day	13 110		0 days 0 days	0 days 45 days 0 days 45 days	100%	12/7/18 26/8/18	25/8/18 9/10/18						
2	Approval of PN25 Pipes and Fittings for CE01 Subcontracting	45 days	26/8/18 16/11/17	16/10/20	Calendar Day	110		0 days	0 days 1066 days	100%	16/11/17	16/10/20		++++		+++++++++++++++++++++++++++++++++++++++	+++++	++++-
3	Submission and Approval	117 days	16/11/17	12/3/18	Calendar Day			0 days	0 days 117 days	100%	16/11/17	12/3/18	┝┼┼┥	•				
4	Submission of sub-contractor selection procedure	24 days	16/11/17	9/12/17	Calendar Day	5	115	0 days	0 days 24 days	100%	16/11/17	9/12/17	•					
5	Approval of sub-contractor selection procedure	42 days	10/12/17	20/1/18	Calendar Day	114	121,122,123,126,128,130,1		0 days 42 days	100%	10/12/17	20/1/18	-					
6	Submission of Sub-contractor Condition	14 days	16/11/17	29/11/17	Calendar Day	5		0 days	0 days 14 days	100%	16/11/17	29/11/17						
7 8	Approval of Sub-contractor Condition	42 days 75 days	30/11/17 16/11/17	10/1/18 29/1/18	Calendar Day Calendar Day	116 5	121,122,126,128,130,132,1 119	0 days	0 days 42 days 0 days 75 days	100% 100%	30/11/17 16/11/17	10/1/18 29/1/18						
.8	Submission of Supplier Selection Procedure Approval of Supplier Selection Procedure	42 days	30/1/18	12/3/18	Calendar Day	118		0 days	0 days 42 days	100%	30/1/18	12/3/18						
0	Subcontractor Selection and Subcontracting	1066 days	16/11/17	16/10/20	Calendar Day			0 days	0 days 1066 days	100%	16/11/17	16/10/20		++++		+++++++++++++++++++++++++++++++++++++++		
21	Consultancy: Independent Checking Engineer for Investigation Works	27 days	21/1/18	16/2/18	Calendar Day	117,115	473	0 days	0 days 27 days	100%	21/1/18	16/2/18						
2	Construction of Temporary site office, hoarding and project sign board	75 days	21/1/18	5/4/18	Calendar Day	117,115		0 days	0 days 75 days	100%	21/1/18	5/4/18						
!3 !4	Trial Pit Excavation	30 days 30 days	21/1/18 16/11/17	19/2/18 15/12/17	Calendar Day Calendar Day	115,5 5		0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	21/1/18 16/11/17	19/2/18						
25	Traffic Consultant for Investigation Works Consultancy: Landscape for Investigation Works	30 days 30 days	16/11/17	15/12/17	Calendar Day	5		0 days	0 days 30 days	100%	16/11/17	15/12/17						
26	Tender list for traffic consultant	9 days	21/1/18	29/1/18	Calendar Day	117,115		0 days	0 days 9 days	100%	21/1/18	29/1/18						
7	Consultancy: Traffic consultant	55 days	30/1/18	25/3/18	Calendar Day	126		0 days	0 days 55 days	100%	30/1/18	25/3/18						
8	Tender list for independent checking engineer	13 days	21/1/18	2/2/18	Calendar Day	117,115		0 days	0 days 13 days	100%	21/1/18	2/2/18						
29 30	Consultancy: Independent Checking Engineer	12 days	3/2/18	14/2/18	Calendar Day	128 117,115		0 days 0 days	0 days 12 days 0 days 15 days	100% 100%	3/2/18 21/1/18	14/2/18 4/2/18						
31	Tender List for Environmental Team Environmental Team	15 days 9 days	21/1/18 5/2/18	4/2/18 13/2/18	Calendar Day Calendar Day	117,115		0 days 0 days	0 days 15 days 0 days 9 days	100%	5/2/18	4/2/18						
12	Tender List (Trenchless): Batch 1	14 days	21/1/18	3/2/18	Calendar Day	117,115		0 days	0 days 14 days	100%	21/1/18	3/2/18						
3	Tender for Trenchless Batch 1	42 days	12/7/18	22/8/18	Calendar Day	13,132		0 days	0 days 42 days	100%	12/7/18	22/8/18			-			
4	Tender list (Trenchless): Batch 2	15 days	4/2/18	18/2/18	Calendar Day	132		0 days	0 days 15 days	100%	4/2/18	18/2/18						
15	Tender for Trenchless Batch 2	42 days	19/2/18	1/4/18	Calendar Day	134		0 days	0 days 42 days	100%	19/2/18	1/4/18] 1	7				
16 17	Tender List (Open Cut Excavation): Batch 1	15 days	21/1/18	4/2/18	Calendar Day	117,115 136,13		0 days	0 days 15 days 0 days 42 days	100% 100%	21/1/18 12/7/18	4/2/18	7					
8	Tender for Open Cut Excavation Batch 1 Tender List (Open cut excavation): Batch 2	42 days 28 days	12/7/18 12/7/18	22/8/18 8/8/18	Calendar Day Calendar Day	136,13		0 days 0 days	0 days 42 days	100%	12/7/18	8/8/18			-			
9	Tender for open cut excavation Batch 2	42 days	9/8/18	19/9/18	Calendar Day	138		0 days	0 days 42 days	100%	9/8/18	19/9/18			-			
0	Tender List (Landscaping)	15 days	21/1/18	4/2/18	Calendar Day	117,115	141	0 days	0 days 15 days	100%	21/1/18	4/2/18	1 1					
1	Tender of Landscaping	42 days	5/2/18	18/3/18	Calendar Day	140		0 days	0 days 42 days	100%	5/2/18	18/3/18		• • • • • •				
12	Tender List (Survey services)	28 days	21/1/18	17/2/18	Calendar Day	117,115		0 days	0 days 28 days	100%	21/1/18	17/2/18						
13 14	Tender of Survey Services Tender List (Cathodic Protection)	42 days 28 days	18/2/18 16/8/19	31/3/18 12/9/19	Calendar Day Calendar Day	142 117,115,30		0 days 0 days	0 days 42 days 0 days 28 days	100% 100%	18/2/18 16/8/19	31/3/18 12/9/19						
15	Tender List (Cathodic Protection) Tender of Cathodic Protection	28 days 42 days	13/9/19	24/10/19	Calendar Day Calendar Day	117,115,30		0 days	0 days 28 days 0 days 42 days	100%	13/9/19	24/10/19						
46	Tender List (BIM)	28 days	21/1/18	17/2/18	Calendar Day	117,115		0 days	0 days 28 days	100%	21/1/18	17/2/18						
47	Tender for BIM	42 days	18/2/18	31/3/18	Calendar Day	146	109	0 days	0 days 42 days	100%	18/2/18	31/3/18						
48	Miscellaneous	1000 days		16/10/20	Calendar Day	117,115		0 days	0 days 1000 days	100%	21/1/18	16/10/20		111	1111			1111
49 50	Procurement of Major Materials	1385 day: 7 days	13/3/18 13/3/18	26/12/21 19/3/18	Calendar Day Calendar Day	119,90		0 days 0 days	0 days 1385 days 0 days 7 days	100% 100%	13/3/18 13/3/18	26/12/21 19/3/18						
51	Preparation of Purchase Order 1st Batch of Material Delivery	7 days 65 days	13/3/18 20/3/18	23/5/18	Calendar Day Calendar Day	119,90		0 days 0 days	0 days 7 days 0 days 65 days	100%	20/3/18	23/5/18		4				
52		1 day	24/5/18	24/5/18	Calendar Day	151	153	0 days	0 days 1 day	100%	24/5/18	24/5/18						
3	Material Delivery by Batches	1312 days		26/12/21	Calendar Day	152		0 days	0 days 1312 days	100%	25/5/18	26/12/21				1111111		1111
54 55		7 days	10/10/18	16/10/18	Calendar Day	111		0 days	0 days 7 days	100%	10/10/18	16/10/18						
55	1st Batch of CE01 Material Delivery 1st Batch of CE01 Material Delivery on site	90 days 23 days	17/10/18 15/1/19	14/1/19 6/2/19	Calendar Day Calendar Day	154 155		0 days 0 days	0 days 90 days 0 days 23 days	100%	17/10/18 15/1/19	14/1/19 6/2/19						
57	1st Batch of CE01 Material Delivery on site SCAP Material Submission and Approval	23 days 261 days	25/10/19	11/7/20	Calendar Day	145		0 days	0 days 23 days	100%	25/10/19	11/7/20						
8	SCAP Purchase Order & Material Delivery	100 days	12/7/20	19/10/20	Calendar Day	157		0 days	0 days 100 days	100%	12/7/20	19/10/20						
	Mainlaying in Tseung Kwan O (Section I)		s 20/2/18	28/9/23	HK Working Day			7 days	7 days 1662 days	84%	20/2/18	NA	+					1111
0	Excavation, Pipe Laying, Backfilling and Reinstatement (CH.A0+00 to A42+10)	1662 days	20/2/18	28/9/23	HK Working Day			7 days	7 days 1662 days	79%	20/2/18	NA	+					
51	Open Cut	1331 days		20/2/23	HK Working Day			181 days	181 days 1331 days	96%	23/8/18	NA						
52 53	Wan Po Road Workfront 1 (CH.A0+00 - CH.A3+62(Pit 1)) CH. A0+00 - CH. A0+14 OC	840 days 45 days	10/9/18 27/3/21	14/7/21	HK Working Day HK Working Day	790		0 days 0 days	0 days 840 days 0 days 45 days	100%	10/9/18 27/3/21	14/7/21 25/5/21			I TT			
54	CH. A0+00 - CH. A0+14 OC CH. A0+14 - CH. A0+50 OC	45 days 156 days	27/3/21 23/5/19	25/5/21 26/11/19	HK Working Day	750		0 days 0 days	0 days 45 days 0 days 156 days	100%	23/5/19	26/11/19						
5	CH. A0+50 - CH.A1+50 OC	42 days	10/9/18	31/10/18	HK Working Day			0 days	0 days 42 days	100%	10/9/18	31/10/18						
	CH. A1+50 - CH. A1+60 OC	53 days	1/11/18	4/1/19	HK Working Day	165	167	0 days	0 days 53 days	100%	1/11/18	4/1/19						
6	CH. A1+60 - CH. A2+14 OC	107 days	5/1/19	20/5/19	HK Working Day	166		0 days	0 days 107 days	100%	5/1/19	20/5/19						
57	CH, A2+14- CH, A2+98 OC with DN600 IT	130 days	18/9/20	26/2/21	HK Working Day HK Working Day	173 168		0 days 0 days	0 days 130 days 0 days 110 days	100%	18/9/20	26/2/21						
57			77/7/21			100										+++++++++++++++++++++++++++++++++++++++	┝┼┼┼┼┼	++++
57 58 59	CH. A2+98 - 3+62 OC with DN150 DAV	110 days	27/2/21	14/7/21		State of the local division of the local div	send in the local distance in the local distance in	0 days		100%	27/2/21	14/7/21						
57 58 59 70		110 days	and the state of t	14/7/21 14/2/22 23/9/21	HK Working Day HK Working Day	169	834		0 days 110 days 0 days 1024 days 0 days 60 days	100%								
57 58 59 70 71 72	CH. A2198 - 3+62 OC with DN150 DAY Wan Po Road Workfront 2 (CH.A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit	110 days 1024 days 60 days 115 days	30/8/18 15/7/21 24/9/21	14/2/22 23/9/21 14/2/22	HK Working Day HK Working Day HK Working Day	169 171	834 172	<mark>0 days</mark> 0 days 0 days	<mark>0 days</mark> 1024 days 0 days 60 days 0 days 115 days	100% 100% 100%	30/8/18 15/7/21 24/9/21	14/2/22 23/9/21 14/2/22						
57 58 59 70 71 72 73	CH. A2+98 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC	110 days 1024 days 60 days 115 days 120 days	30/8/18 15/7/21 24/9/21 27/4/20	14/2/22 23/9/21 14/2/22 17/9/20	HK Working Day HK Working Day HK Working Day HK Working Day	169 171 175	834 172 168,186	<mark>0 days</mark> 0 days 0 days 0 days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 120 days	100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20	14/2/22 23/9/21 14/2/22 17/9/20						
57 58 59 70 71 72 73	CH. A2198 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH.45+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road	110 days 1024 days 60 days 115 days	30/8/18 15/7/21 24/9/21	14/2/22 23/9/21 14/2/22	HK Working Day HK Working Day HK Working Day	169 171	834 172 168,186	<mark>0 days</mark> 0 days 0 days	<mark>0 days</mark> 1024 days 0 days 60 days 0 days 115 days	100% 100% 100%	30/8/18 15/7/21 24/9/21	14/2/22 23/9/21 14/2/22						
57 58 59 70 71 72 73 74	CH. A2198 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6+54 and A6+61	110 days 1024 days 60 days 115 days 120 days 1 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day	169 171 175	834 172 168,186	0 days 0 days 0 days 0 days 0 days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 120 days 0 days 1 day	100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20						
57 58 59 70 71 72 73 74 75	CH. A2198 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6+54 and A6+61	110 days 1024 days 60 days 115 days 120 days 1 day 378 days	30/8/18 15/7/21 24/9/21 27/4/20	14/2/22 23/9/21 14/2/22 17/9/20	HK Working Day HK Working Day HK Working Day HK Working Day	169 171 175	834 172 168,186 173	<mark>0 days</mark> 0 days 0 days 0 days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 120 days	100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20	14/2/22 23/9/21 14/2/22 17/9/20						
67 68 69 70 71 72 73 73 74 75 76	CH. A2498 - 3462 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A54-29.5(Pit 2) - CH. A74-12) CH. A5425.5 - 5488 OC CH. A5488 - 6554 OC + DN300 Washout Pump Pit CH. A6420 - 6554 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 4654 a 674 OC + Handshield Tunnelling	110 days 1024 days 60 days 115 days 120 days 1 day 378 days	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day HK Working Day Calendar Day	169 171 175 44	834 172 168,186 173	O days O days O days O days O days O days O days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 1120 days 0 days 120 days 0 days 1 day 0 days 378 days 0 days 1 day	100% 100% 100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20						
57 58 59 70 71 72 73 74 75 76	CH. A2+98 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. A6+54 and A6+61 CH. A6+54 - 6+70 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6+68 and CH. A6+88 EVM No. 14 (covered by CIN No. 8 & CE No.05) - Unforeseen Underground	110 days 1024 days 60 days 115 days 120 days 1 day 378 days	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day HK Working Day	169 171 175 44	834 172 168,186 173	O days O days O days O days O days O days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 120 days 0 days 1 day 0 days 1 day	100% 100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20						┥
57 58 59 70 71 72 73 74 75 76	CH. A2198 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH.45+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 6+54 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CK No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH.6+54 and A6+61 CH. A6+54 - 6+70 OC + Handshield Tunnelling Issue CK No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6+68 and CH. A6+88 EWN No. 14 (covered by CNE No. 8 & CE No.66) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day HK Working Day Calendar Day	169 171 175 44	834 172 168,186 173	O days O days O days O days O days O days O days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 1120 days 0 days 120 days 0 days 1 day 0 days 378 days 0 days 1 day	100% 100% 100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20						
57 58 59 70 71 72 73 74 75 76 77	 CH. A2498 - 3462 OC with DNISD DAV Wan Po Road Workfront 2 (CH. A54-29.5(Pit 2) - CH. A74-12) CH. A5425 - 5488 OC CH. A5488 - 6454 OC + DN300 Washout Pump Pit CH. A6420 - 6454 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6454 and A6461 CH. A6454 - 6470 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road DC end CH. A6498 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6468 	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day 1 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day	169 171 175 44	834 172 168,186 173	O days O days O days O days O days O days O days O days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 1120 days 0 days 120 days 0 days 1 day 0 days 378 days 0 days 1 day	100% 100% 100% 100% 100% 100%	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20						
57 58 59 70 71 72 73 74 75 76 77 77 78 8	 CH. A2498 - 3462 OC with DNISD DAV Wan Po Road Workfront 2 (CH. A54-29.5(Pit 2) - CH. A74-12) CH. A5425 - 5488 OC CH. A5488 - 6454 OC + DN300 Washout Pump Pit CH. A6420 - 6454 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6454 and A6461 CH. A6454 - 6470 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road DC end CH. A6498 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6468 	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day	169 171 175 44	834 172 168,186 173 6334	0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 0 days 181 days	0 days 1024 days 0 days 60 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1 day 0 days 378 days 0 days 1 day 0 days 1 day	100% 100% 100% 100% 100% 100% 100% 100%	30/5/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA			,	<u></u>		
57 58 59 70 71 72 73 74 75 76 77 76 77 77 78 79	CH. A2498 - 3462 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5+29.5(Pit 2) - CH. A7+12) CH. A5+29.5 - 5+88 OC CH. A5+88 - 65+3 OC + DN300 Washout Pump Pit CH. A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6+54 and A6+61 CH. A6+54 - 6+70 OC + Handshield Tunnelling Issue CE No. 25 - Unforescen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6+68 and CH. A6+88 EVM No. 14 (covered by CNE No. 8 & CE No.06) - Unforescen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6+90 and CH. A7+10 CH. A6+70 - CH. A7+12 OC Wan Po Road Workfront 3 (CH. A7+12 - CH.A13+79-5(Pit A)) EVM No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day 1 day 1 day 111 days 111 days 1308 days 111 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23 25/2/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day Calendar Day	169 171 175 44	834 172 168,186 173 834	0 days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1 day 0 days 1 day 0 days 111 days 181 days 183 days 1 days 1 day	100% 100% 100% 100% 100% 100% 100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20			,			
57 58 59 70 71 72 73 74 74 75 75 76 77 77 77 88 89 99 80 80 81	CH, A2+98 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH-A5+29-5(Pit 2) - CH, A7+12) CH, A5+29.5 - 5+88 OC CH, A5+88 - 6+54 OC + DN300 Washout Pump Pit CH, A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH, A6+54 and A6+61 CH, A6+54 - 6+70 OC + Handshield Tunnelling Issue CE No. 25 - Unforesteen Underground Conditions during Trench Excavation at Wan Po Road between CH, A6+68 and CH, A6+88 EVW No. 14 (covered by CINE No. 8 & CE NO.60) - Unforesteen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH, A6+90 - CH, A7+10 CH, A6+70 - CH, A7+12 OC Wan Po Road Workfront 3 (CH, A7+12 - CH, A13+79-5(Pit A)) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day 111 days 1308 days 1 day 111 days	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20 9/4/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23 25/2/20 9/4/20	HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day Calendar Day	169 171 175 44	834 172 168,186 173 834	0 days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 138 days 0 days 1 day 0 days 1 day 0 days 1 11 days 183 days 1308 days 0 days 1 day 0 days 1 day	100% 100% 100% 100% 100% 100% 100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 19/9/18 19/9/18 25/2/20 9/4/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20 9/4/20			,	<u></u>		
57 58 59 59 70 1 72 73 73 74 755 76 777 78 789 100 791 100 783 100 793 100 793 100 793 100 793 100 793 100 794 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 795 100 700 100 700 100 700 10	 CH. A2498 - 3462 OC with DNISD DAV Wan Po Road Workfront 2 (CH. A5429.5(Pit 2) - CH. A7412) CH. A5425 - 5488 OC CH. A5483 - 6554 OC + DN300 Washout Pump Pit CH. A6420 - 6554 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH.6543 end A6461 CH. A654 - 6570 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6458 and CH. A6488 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6458 and CH. A6488 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Taxavation for Mainlaying at Wan Po Road Between CH.A6450 and CH.A7410 CH. A6470 - CH. A7412 OC Wan Po Road Workfront 3 (CH. A742 - CH.A13479.5(Pit A)) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 159 - Confirmation of Revised Pipe Alignment outside the Intrance Cate of Sene Valley Landf EWN No. 159 - Confirmation of Revised Pipe Alignment outside the Intrance Cate of Sene Valley Landf 	110 days 1024 days 60 days 115 days 120 days 1 day 378 days 1 day 111 days 1308 days 1 day 111 days	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23 25/2/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day Calendar Day	169 171 175 44	834 172 168,186 173 834	0 days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1 day 0 days 1 day 0 days 111 days 181 days 183 days 1 days 1 day	100% 100% 100% 100% 100% 100% 100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20			•			
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67 68 59 9 70 1 72 73 73 74 75 76 777 8 800 811 822 833	 CH. A2498 - 3462 OC with DN150 DAV Wan Po Road Workfront 2 (CH. A5429.5(Pit 2) - CH. A7412) CH. A5425.5 - 5488 OC CH. A5425.5 - 5488 OC CH. A5488 - 6554 OC + DN300 Washout Pump Pit CH. A6420 - 6454 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6454 and A6+61 CH. A654 - 6770 OC + Handshield Tunnelling Issue CE No. 25 - Unforescen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6468 and CH. A6488 EWN No. 14 (coverad by CNE No. 8 & CE No.06) - Unforescen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6469 and CH.A7410 CH. A6470 - CH. A7412 OC Wan Po Road Workfront 3 (CH. A7412 - CH.A13479.5(Pit A)) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 139 - Confimation Revised Pipe Alignment outside the Entrance Gate of Green Valley EWN No. 139 - Additional Inspection Pit at Wan Po Road Northbound outside the Entrance Gate of Green Valley 	110 days 1024 days 60 days 115 days 120 days 1 day 1 day 111 days 1308 days 1 day 1 1 day 1 day	30/8/18 15/7/21 22/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20 9/4/20 20/5/20 11/6/20	10/2/22 23/9/21 14/2/22 20/1/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23 25/2/20 20/5/20 11/6/20	HK Working Day HK Working Day HK Working Day KK Working Day Calendar Day	169 171 175 44	834 172 168,186 173 6334 187,188	0 days 0 days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1378 days 0 days 1 day 0 days 1 day 0 days 111 days 181 days 0 days 1 day 0 days 1 day 0 days 1 day 0 days 1 day 0 days 1 day	100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 15/9/18 25/2/20 9/4/20 20/5/20 11/6/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 14/20 20/5/20 20/5/20						
57 57 58 59 70 1 72 2 73 3 74 - 75 - 76 - 77 - 78 - 79 - 300 - 311 - 32 -	CH, A2+38 - 3+62 OC with DN150 DAV Wan Po Road Workfront 2 (CH-A5+23-S(Pit 2) - CH, A7+12) CH, A5+25.5 - 5+88 OC CH, A5+25.5 - 5+88 OC CH, A5+83 - 6+54 OC + DN300 Washout Pump Pit CH, A6+20 - 6+54 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH, A6+54 and A6+61 CH, A6+54 - 6+70 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH, A6+68 and CH, A6+88 EWN No. 14 (covered by CIR No. 8 & CE No.05) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH, A6+70 - CH, A7+12 OC Wan Po Road Workfront 3 (CH, A7+12 - CH,A13+79.5[Pit A]) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 108 - TTA Implementation Pit at Wan Po Road Northbound outside the Entrance Gate of Batch No. 3 - Inspection Pit Excavation at the footpath of Wan Po Road near Green	110 days 1024 days 60 days 115 days 120 days 1 day 1 day 111 days 1308 days 1 day 1 1 day 1 day	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20 9/4/20 20/5/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/2/23 25/2/20 9/4/20 20/5/20	HK Working Day HK Working Day HK Working Day Calendar Day KK Working Day Calendar Day Calendar Day Calendar Day HK Working Day HK Working Day Calendar Day Calendar Day Calendar Day	169 171 175 44	834 172 168,186 173 6334 187,188	0 days 0 days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1 day 0 days 1 day 0 days 1 day 0 days 1 11 days 181 days 0 days 1 day 0 days 1 day 0 days 1 day	100% 100% 100% 100% 100% 100% 100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 25/6/20 18/9/18 30/8/18 19//18 25/2/20 9/4/20 20/5/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20 9/4/20 20/5/20			1			
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666 67 67 68 69 70 72 73 73 74 75 77 78 79 883 881 882 883 884 885 886 887 888 899 900 91 92 242 242	 CH, A2498 - 3462 OC with DN150 DAV Wan Po Road Workfront 2 (CH, A54235(Pit 2) - CH, A7412) CH, A5425 - 5488 OC CH, A5483 - 6554 OC + DN300 Washout Pump Pit CH, A5483 - 6554 OC + Instruction to Change in Mainlaying Method at Wan Po Road between CH, 6543 and A6+61 CH, A654 - 6770 OC + Handshield Tunnelling Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH, A6454 - 6770 OC + Handshield Tunnelling Issue CE No. 25 - Unforescen Underground Conditions during Trench Excavation at Wan Po Road between CH, A6468 and CH, A6488 EWN No. 14 (coverad by CNE No. 8 & CE No.06) - Unforescen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH, A6469 and CH A710 CH, A6470 - CH, A7412 OC Wan Po Road Workfront 3 (CH, A7422 - CH, A134793 S[Pit A]) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landfl EWN No. 139 - Confimation of Revised Pipe Alignment outside the Entrance Gate of Green Valley Landfl EWN No. 139 - Additional Inspection Pit at Wan Po Road Northbound outside the Entrance Gate of Steen Valley Landflil CH, A742 - 7464 OC with DH500 IT & N0900 H.S.V. Chamber CH, A7428 - 8460 OC with DH500 IT & N0900 H.S.V. Chamber CH, A7428 - 8420 C CH, A848 - 10450 OC CH, A948 - 10450 OC 	110 days 1024 days 60 days 60 days 115 days 120 days 1 day 1	30/8/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 30/8/18 30/8/18 30/8/18 30/8/18 30/8/18 30/8/18 25/2/20 25/2/20 23/7/20 23/7/20 23/7/20 18/9/20 20/5/20 20/5/20 20/5/20 20/5/20 20/5/20	19/7/22 23/9/21 14/7/22 20/1/20 25/4/20 25/4/20 29/6/20 18/9/18 12/1/19 20/7/23 25/2/20 11/6/20 21/7/20 29/7/20 7/1/21 21/9/20 4/8/20 20/10/20	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day	169 171 175 44 56 56 10 10 10 173 182 182 182 182 188 189 190	834 172 168,186 173 6334 187,188 189 190 191 192	lo days O days	0 days 1024 days 0 days 105 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 120 days 0 days 1378 days 0 days 1 day 0 days 6 days 0 days 6 days 0 days 6 days 0 days 5 days	100% 100% 100% 100% 100% 100% 100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 25/2/20 9/4/20 20/5/20 11/6/20 23/7/20 18/9/20 20/5/20 5/8/20 21/10/20	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20 9/4/20 20/5/20 20/5/20 27/7/20 27/7/20 29/7/20 7/1/21 21/9/20 20/10/20 7/1/21						
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57 57 59 59 70 1 72 3 74 72 75 5 76 7 77 78 78 333 331 333 333 334 335 336 336 333 337 338 339 300 331 334	 CH. A2498 - 3462 OC with DNISD DAV Wan Po Road Workfront 2 (CH. A5423 5(Pit 2) - CH. A7412) CH. A5425 - 5488 OC CH. A5488 - 6554 OC + DN300 Washout Pump Pit CH. A5488 - 6554 OC + Landshout Pump Pit CH. A6420 - 6554 OC Issue CE No. 22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH. 6654 and A6461 CH. A654 - 6770 OC + Handshield Tunnelling Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6458 and CH. A6488 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6458 and CH. A6488 EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH. A6450 and CH. A7410 CH. A6470 - CH. A7412 OC Wan Po Road Workfront 31 (CH. A7412 - CH.A13479.5(Pit A)) EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landf EWN No. 139 - Confinmation of Revised Pipe Alignment outside the Entrance Gate of Green Valley Landf EWN No. 139 - Singletion Pit Excavation at the footpath of Wan Po Road near Green Valley Landfill EWN No. 139 - Inspection Pit Excavation at the footpath of Wan Po Road near Green Valley Landfill EWN No. 1442 - 9480 OC CH. A7424 - 9480 OC CH. A7424 - 9480 OC CH. A9424 - 9480 O	110 days 1024 days 60 days 60 days 115 days 120 days 1 day 378 days 1 day 1 day 4 days 1 day 9 days 9 days 1 day 9 days 9 days 9 days 9 days 1 day 9 days 9 days 1 day 9 days 1 days 1 day 9 days 1 days 1 day 1 days 1 da	30/6/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/8/18 19/9/18 30/8/18 19/9/18 30/8/18 19/9/18 20/5/20 20/5/21 20/	19/7/22 23/9/21 14/7/22 22/1/20 22/1/20 25/4/20 29/6/20 18/9/18 12/1/19 20/7/23 25/2/20 11/6/20 27/7/20 27/7/20 29/7/20 29/7/20 29/7/20 21/9/20 20/9/20 21/9/2	HK Working Day HK Working Day HK Working Day HK Working Day Calendar Day HK Working Day Calendar Day HK Working Day	169 171 175 44 56 56 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	834 172 168,186 173 834 189 190 191 192 193 194	lo days O days	0 days 1024 days 0 days 1026 days 0 days 115 days 0 days 115 days 0 days 120 days 0 days 120 days 0 days 1 day 0 days 6 days 0 days 64 days 0 days 95 days 0 days 56 days 0 days 56 days	100% 100%	30/\$/18 15/7/21 24/9/21 27/4/20 20/1/20 14/1/19 29/6/20 18/9/18 30/\$/18 30/\$/18 15/9/18 25/2/20 9/4/20 20/5/20 23/7/20 11/6/20 29/7/20 18/9/20 20/5/21 20/5/21 20/5/21 20/5/21 20/5/21 20/5/21 20/5/21	14/2/22 23/9/21 14/2/22 17/9/20 20/1/20 25/4/20 29/6/20 18/9/18 12/1/19 NA 25/2/20 9/4/20 20/5/20 11/6/20 21/7/20 29/7/20 7/1/21 21/9/20 4/8/20 20/10/20 7/1/21 21/9/20 4/8/20 20/10/20			P			

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D Task Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish	2018 2019 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4	2020
5	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near CH.	1 day	22/8/19	22/8/19	Calendar Day	31		0 days	0 days 1 day	100%	22/8/19	22/8/19	D J F M A M J J A S ON D J F M A M J J A S O	NDJFMA
,	A12+40 EWN No.23 (Covered by CNE No.16 & CE No. 18) - Unforeseen Ground Conditions at	t 1 day	4/12/18	4/12/18	Calendar Day			0 days	0 days 1 day	100%	4/12/18	4/12/18		
18	Open Trench of Mainlaying at Wan Po Road between CH.A12+89 and CH.A13+04 CH. A12+50 - 12+95 OC	125 days	19/9/18	21/2/19	HK Working Day			0 days	0 days 125 days	100%	19/9/18	21/2/19		
99	CH. A12+50 - 12+55 OC CH. A12+95 - 13+13 OC	84 days	9/11/18	21/2/19	HK Working Day		200	0 days	0 days 125 days 0 days 84 days	100%	9/11/18	21/2/19		
200	CH. A13+13 - 13+40 OC + DN150 DAV CH. A13+40 - 13+60 OC (Pit A0)	65 days 40 days	30/11/22 14/10/22	20/2/23 29/11/22	HK Working Day HK Working Day	199,201 376	200	181 days O days	181 days 65 days 181 days 40 days	0% 0%	NA NA	NA		
02	Wan Po Road Nighwork Section (CH. A22+67.5 - CH.A42+10)	774 days	23/8/18	1/4/21	HK Working Day		200	0 days	0 days 774 days	100%	23/8/18	1/4/21	╽╵╵╹╵╵╵╵╹ <mark>┽┼┽┽┼┼┼┼┼┼</mark> ┽	+++++
203	Suspension of Nightwork Section due to Restriction with Railway Protection Zone, TMLG requirements and failure of application for CNP	1 day	3/8/20	3/8/20	Calendar Day			0 days	0 days 1 day	100%	3/8/20	3/8/20		
204	CE05 - Feasibility Study of Realignment of Pipeline at TKO Stage 1 Landfill	188 days	23/8/18	26/2/19	Calendar Day	15		0 days	0 days 188 days	100%	23/8/18	26/2/19	{ 	
205	CE10 - Contractor Design of The Realignment - at the Junction of Wan Po Road and Pung Loi Avenuce	249 days	28/2/19	3/11/19	Calendar Day	20		0 days	0 days 249 days	100%	28/2/19	3/11/19		
106	CE35 - Feasibility Study on the Alternative Alignment by Trenchless method beneath	270 days	31/12/19	25/9/20	Calendar Day	38		0 days	0 days 270 days	100%	31/12/19	25/9/20		
207	MTR's Tunnels in the Wan Po Road j/o Lohas Park Road CE65 - Landscape Survey near Po Yap Road and Pung Loi Road	1 day	11/6/20	11/6/20	Calendar Day	60		0 days	0 days 1 day	100%	11/6/20	11/6/20		
108 109	CE87 - Affected Trees near Pung Loi Road, Po Yap Road and Wan Po Road	1 day	22/12/20	22/12/20	Calendar Day	61	209	0 days	0 days 1 day	100%	22/12/20	22/12/20		
10	TPRP Submission and Approval Site Possession and Tree Removal Works	60 days 21 days	22/12/20 9/3/21	8/3/21 1/4/21	HK Working Day HK Working Day	208 209	210 222,223	0 days 0 days	0 days 60 days 0 days 21 days	100%	22/12/20 9/3/21	8/3/21 1/4/21		
11 12	CE No. 60 - Realignment of Water Main near Pung Loi Road	390 days	27/5/21	20/6/22	Calendar Day	E State of the	837	79 days	465 days 390 days	91%	27/5/21	NA		
13	Nightwork Section (CH. A36+00 - CH. A39+00) Superseded by CE60 Tender Process and Tender Award	1 day 60 days	27/5/21 27/5/21	27/5/21 25/7/21	Calendar Day Calendar Day	62 212	213 214	0 days 0 days	0 days 1 day 0 days 60 days	100%	27/5/21 27/5/21	27/5/21 25/7/21		
14 15		30 days	26/7/21	24/8/21	Calendar Day	213	215,219	0 days	0 days 30 days	100%	26/7/21	24/8/21		
15	TTA preparation, SLG meetings and obtain RA Open Trench underneath Pung Loi Avenue	30 days	25/8/21 13/1/22	23/9/21	Calendar Day HK Working Day	214	222,223	0 days 0 days	0 days 30 days 0 days 88 days	100%	25/8/21 13/1/22	23/9/21		
17 18	Obtain Access from EPD (TKO Landfill Stage I Area B)	14 days	13/1/22	28/1/22	HK Working Day	328	219,218	0 days	0 days 14 days	100%	13/1/22	28/1/22		
10	3 Inspection pit excavations under existing flyover CH.FD0+00 - CH.FD0+65 OC	14 days 30 days	29/1/22 18/2/22	17/2/22 24/3/22	HK Working Day HK Working Day	217 214,217,218	219 220	O days O days	0 days 14 days 0 days 30 days	100% 100%	29/1/22 18/2/22	17/2/22 24/3/22		
20	Construction DN900 SV Chamber at CH.FD0+25	30 days	25/3/22	4/5/22	HK Working Day	219		0 days	0 days 30 days	100%	25/3/22	4/5/22		
21	Exposed Pipe From CH.FDD0+65 to FD2+00 Excavation In Slope Toe; Construction of Flooding Protection Wall with U-Channel,	135 days , 135 days	24/9/21 24/9/21	9/3/22 9/3/22	HK Working Day HK Working Day	210,215		0 days 0 days	0 days 135 days 0 days 135 days	100%	24/9/21 24/9/21	9/3/22		
23	Length = 135m, @12m per 12days						224							
24		42 days 14 days	24/9/21 15/11/21	13/11/21 30/11/21	HK Working Day HK Working Day	210,215 223	224 225,227	O days O days	0 days 42 days 0 days 14 days	100% 100%	24/9/21 15/11/21	13/11/21 30/11/21		
25		30 days	1/12/21	7/1/22	HK Working Day	224	229	0 days	0 days 30 days	100%	1/12/21	7/1/22		
27	Open Trench Connecting Trenchless and Exposed Pipe CH.FD2+00 to CH.FD3+15 OC	160 days 50 days	1/12/21 1/12/21	20/6/22 31/1/22	HK Working Day HK Working Day	224	228,229	381 days O days	381 days 160 days 0 days 50 days	68% 100%	1/12/21 1/12/21	NA 31/1/22		
28	CH.FDD3+15 to CH.FDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and		4/2/22	2/4/22	HK Working Day	227	229,254	0 days	0 days 50 days	100%	4/2/22	2/4/22		
29	Connection to Pit WPR1 Make Good Slope Toe and Landscape Work	60 days	4/4/22	20/6/22	HK Working Day	225,227,228		381 days	381 days 60 days	15%	4/4/22	NA		
30 31	CE59 - Water Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	608 days	20/8/20	7/9/22 27/8/20	HK Working Day		837	0 days	314 days 608 days	87%	20/8/20	NA 27/8/20		
32	Inspection Pit at Working Pit G1A	7 days 7 days	2/11/20	9/11/20	HK Working Day HK Working Day			O days O days	0 days 7 days 0 days 7 days	100% 100%	20/8/20 2/11/20	9/11/20		
33 34		1 day 60 days	13/11/20 13/11/20	13/11/20	HK Working Day	63 233	234,238	0 days	0 days 1 day	100%	13/11/20	13/11/20		
35	\cdot Design & Method Statement Submission and Approval ; Preparation Works for Pit	30 days	26/1/21	25/1/21 4/3/21	HK Working Day HK Working Day	233 234	235,236,237 245	0 days 0 days	0 days 60 days 0 days 30 days	100% 100%	13/11/20 26/1/21	25/1/21 4/3/21		
36	J1A	30 days	26/1/21	4/3/21	HK Working Day	234		0 days	0 days 30 days	100%	26/1/21	4/3/21		
	G1A													
37	Design & Method Statement Submission and Approval ; Preparation Works for Pit WPR1	30 days	26/1/21	4/3/21	HK Working Day	234	242	0 days	0 days 30 days	100%	26/1/21	4/3/21		
38	TTA preparation, SLG meetings and obtain RA	60 days	13/11/20	25/1/21	HK Working Day	233	240,243,241	0 days	0 days 60 days	100%	13/11/20	25/1/21		
40	Construction of Pits for Mainlaying by Pipe Jacking Method Obtain consent for vehicular access construction for WPR1	275 days 1 day	25/1/21 25/1/21	29/12/21 25/1/21	HK Working Day HK Working Day	238		0 days 0 days	0 days 275 days 0 days 1 day	100%	25/1/21 25/1/21	29/12/21 25/1/21		
41	Tree Truning at WPR1	2 days	3/11/21	4/11/21	HK Working Day	238	242	0 days	0 days 2 days	100%	3/11/21	4/11/21		
42 43		45 days 7 days	5/11/21 26/1/21	29/12/21 2/2/21	HK Working Day HK Working Day	241,237 238	247 244	0 days 0 days	0 days 45 days 0 days 7 days	100% 100%	5/11/21 26/1/21	29/12/21 2/2/21		
44	Receiving Pit G1A (Near Po Yap Road)	45 days	3/2/21	30/3/21	HK Working Day	243	250,260	0 days	0 days 45 days	100%	3/2/21	30/3/21		
45 46	Construction of Jacking Pit J1A Trenchless between Pit WPR1 and Pit G1A and Pipe Installation	30 days 204 days	5/3/21 30/12/21	13/4/21	HK Working Day	235	257	0 days 314 days	0 days 30 days 314 days 204 days	100% 42%	5/3/21 30/12/21	13/4/21 NA		
47 48	TBM Establishment at Pit WPR1	14 days	30/12/21	15/1/22	HK Working Day	242	248	0 days	0 days 14 days	100%	30/12/21	15/1/22		
49		75 days 14 days	17/1/22 22/4/22	21/4/22 10/5/22	HK Working Day HK Working Day	247 248	249 250	0 days 0 days	314 days 75 days 314 days 14 days	96% 0%	17/1/22 NA	NA		
50 51	Setup for Pipe Laying inside Jacking Pit WPR1	6 days	11/5/22	17/5/22	HK Working Day	249,244	251	0 days	314 days 6 days	0%	NA	NA		
52		56 days 3 days	18/5/22 25/7/22	23/7/22 27/7/22	HK Working Day HK Working Day	250 251	252 253	O days O days	314 days 56 days 314 days 3 days	0% 0%	NA	NA		
53	Grouting Works (30m per day)	8 days	28/7/22	5/8/22	HK Working Day	252	254	0 days	314 days 8 days	0%	NA	NA		
54 55		14 days 14 days	6/8/22 23/8/22	22/8/22 7/9/22	HK Working Day HK Working Day	253,228 254	255	0 days 314 days	314 days 14 days 314 days 14 days	0% 0%	NA NA	NA		
56 57	Trenchless between Pit G1A and Pit J1A and Pipe Installation	233 days	14/4/21	21/1/22	HK Working Day		250	0 days	0 days 233 days	100%	14/4/21	21/1/22		
58		16 days 101 days	14/4/21 4/5/21	3/5/21 1/9/21	HK Working Day HK Working Day	245 257	258 259	0 days 0 days	0 days 16 days 0 days 101 days	100% 100%	14/4/21 4/5/21	3/5/21 1/9/21		
59 60	Remove Setup at Pit J1A	6 days	2/9/21	8/9/21	HK Working Day	258	260	0 days	0 days 6 days	100%	2/9/21	8/9/21		
61		14 days 42 days	9/9/21 27/9/21	25/9/21 16/11/21	HK Working Day HK Working Day	259,244 260	261 262	0 days 0 days	0 days 14 days 0 days 42 days	100% 100%	9/9/21 27/9/21	25/9/21 16/11/21		
62 63	Formwork & Setup for Grouting the gap between pipe and Sleeve	8 days	17/11/21	25/11/21	HK Working Day	261	263	0 days	0 days 8 days	100%	17/11/21	25/11/21		
64		3 days 25 days	26/11/21 30/11/21	29/11/21 30/12/21	HK Working Day HK Working Day	262 263	264,267 265	O days O days	0 days 3 days 0 days 25 days	100% 100%	26/11/21 30/11/21	29/11/21 30/12/21		
65	Remove ELS including extracting sheet piles at Pit G1A; Reinstatement	18 days	31/12/21	21/1/22	HK Working Day	264		0 days	0 days 18 days	100%	31/12/21	21/1/22		
67	Open Trench between Pit K and JIA Pipe Laying From Pit K to Pit JIA (OC) (48m)	109 days 62 days	30/11/21 30/11/21	13/4/22 16/2/22	HK Working Day HK Working Day	263	268	0 days 0 days	0 days 109 days 0 days 62 days	100%	30/11/21 30/11/21	13/4/22 16/2/22		
68 69	Construction of Thrust Block from Pit K to Pit J1A	15 days	17/2/22	5/3/22	HK Working Day	267	269	0 days	0 days 15 days	100%	17/2/22	5/3/22		
70		18 days 14 days	7/3/22 28/3/22	26/3/22 13/4/22	HK Working Day HK Working Day	268 269	270	0 days 0 days	0 days 18 days 0 days 14 days	100% 100%	7/3/22 28/3/22	26/3/22 13/4/22		
71	CE36 - Realignment of Water Mains along the Bituminous Road adjacent to Lohas	545 days	22/5/20	21/3/22	HK Working Day		836	0 days	0 days 545 days	100%	22/5/20	21/3/22		
72	Park Road (Area A) (CH. FB0+00 to CH.FB5+34) Nightwork Section (CH. A22+67.5 - CH. 28+01.5) Superseded by CE36	1 day	22/5/20	22/5/20	HK Working Day	51	273	0 days	0 days 1 day	100%	22/5/20	22/5/20		
73	Tender List Preparation & Approval, Tendering Process and PM's Approval	90 days	22/5/20	5/9/20	HK Working Day	272	274	0 days	0 days 90 days	100%	22/5/20	5/9/20		
75		1 day 60 days	5/9/20 7/9/20	5/9/20 18/11/20	HK Working Day HK Working Day	273 274	275 282,283,281	0 days 0 days	0 days 1 day 0 days 60 days	100% 100%	5/9/20 7/9/20	5/9/20 18/11/20		
76	CH. FB0+00 - 0+38 OC	35 days	11/12/21	24/1/22	HK Working Day	277		0 days	0 days 35 days	100%	11/12/21	24/1/22		
77 78		30 days 75 days	6/11/21 7/8/21	10/12/21 5/11/21	HK Working Day HK Working Day	278 279	276 277	0 days 0 days	0 days 30 days 0 days 75 days	100%	6/11/21 7/8/21	10/12/21 5/11/21		
79 80	CH. FB1+02 - 1+34 OC with DN300 Washout Pump Pit	75 days	8/5/21	6/8/21	HK Working Day	280	278	0 days	0 days 75 days	100%	• 8/5/21	6/8/21		
31		75 days 60 days	1/2/21 19/11/20	7/5/21 30/1/21	HK Working Day HK Working Day	281 275	279 280	0 days 0 days	0 days 75 days 0 days 60 days	100%	1/2/21 19/11/20	7/5/21 30/1/21		
82	CH. FB2+06 - 2+38 OC	30 days	19/11/20	23/12/20	HK Working Day	275		0 days	0 days 30 days	100%	19/11/20	23/12/20		
83		30 days 75 days	19/11/20 24/12/20	23/12/20 27/3/21	HK Working Day HK Working Day	275 283	284 285	0 days 0 days	0 days 30 days 0 days 75 days	100% 100%	19/11/20 24/12/20	23/12/20 27/3/21		
85	CH. FB3+02 3+34 OC	30 days	29/3/21	7/5/21	HK Working Day	284	286	0 days	0 days 30 days	100%	29/3/21	7/5/21		
86		75 days 30 days	8/5/21 7/8/21	6/8/21 10/9/21	HK Working Day HK Working Day	285 286	287 288	0 days 0 days	0 days 75 days 0 days 30 days	100% 100%	8/5/21 7/8/21	6/8/21 10/9/21		
38	CH. FB3+98 - 4+30 OC	30 days	11/9/21	19/10/21	HK Working Day	287	289	0 days	0 days 30 days 0 days 30 days	100%	11/9/21	19/10/21		
89 90		30 days 30 days	20/10/21 24/11/21	23/11/21 30/12/21	HK Working Day HK Working Day	288 289	290 291	0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	20/10/21 24/11/21	23/11/21 30/12/21		
91	CH. FB4+94 - 5+34 OC	30 days	31/12/21	8/2/22	HK Working Day	290	291 292	0 days	0 days 30 days 0 days 30 days	100%	24/11/21 31/12/21	8/2/22		
92 93	Open Cut from CH.FB5+34 to Pit F) CE34 - Realignment of Watermain along TKO Stage 1 Landfill (CH.FC0+00 - CH.FC13+44	35 days	9/2/22 5/11/19	21/3/22	HK Working Day HK Working Day	291	836	0 days 0 days	0 days 35 days 0 days 649 days	100%	9/2/22 5/11/19	21/3/22 12/1/22		
4		1 day	5/11/19	5/11/19	HK Working Day	34	295	0 days	0 days 1 day	100%	5/11/19	5/11/19		
	and the second			the second s			Contraction of the second s							



D Task Nam	pe	Duration	Start	Finish	Task Calendar	Predecessors	Sucressors		ontract No. 13/WSD/1 Total Slack Duration	% Complete	Act al Start	Actual Finish	2018 20 103 104 20	019 2020 01 02 03 104 00 105	10
	Tender List Preparation & Approval, Tendering Process and PM's Approval	90 days	5/11/19	24/2/20	HK Working Day	294	296	0 days	0 days 90 days	100%	5/11/19	24/2/20	DJFMAMJJASONDJ		MJJ
	Tender Award / Issue LOA	1 day	24/2/20	24/2/20	HK Working Day	295	297	0 days	0 days 1 day	100%	24/2/20	24/2/20			
	Method Statement and Design Submission TKO South Waterfront Promenade (CH. FCO+00 - 4+87)	60 days 442 days	25/2/20 26/2/20	11/5/20 23/8/21	HK Working Day HK Working Day	296		0 days 0 days	0 days 60 days 0 days 442 days	100%	25/2/20 26/2/20	11/5/20 23/8/21			++
	CH. FC 0+00 - 0+33 OC CH. FC 0+33 - 0+65 OC	30 days 30 days	20/7/21 12/6/21	23/8/21 19/7/21	HK Working Day HK Working Day	300 313	299	0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	20/7/21 12/6/21	23/8/21 19/7/21			
0	CH. FC 0+65 - 0+95 OC	34 days	26/2/20	6/4/20	HK Working Day	212	235	0 days	0 days 34 days	100%	26/2/20	6/4/20			
02	CH. FC 0+95 - 1+27 OC CH. FC 1+27 - 1+59 OC	30 days 31 days	6/4/20 15/5/20	15/5/20 19/6/20	HK Working Day HK Working Day			0 days 0 days	0 days 30 days 0 days 31 days	100% 100%	6/4/20 15/5/20	15/5/20 19/6/20			1
04	CH. FC 1+59 - 1+91 OC	31 days	19/6/20	27/7/20	HK Working Day			0 days	0 days 31 days	100%	19/6/20	27/7/20			Tŧ
05	CH. FC 1+91 - 2+23 OC	30 days 30 days	15/7/20 19/8/20	18/8/20 22/9/20	HK Working Day HK Working Day	305	306 307	0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	15/7/20 19/8/20	18/8/20 22/9/20			
07	CH. FC 2+23 - 2+55 OC CH. FC 2+55 - 2+87 OC	30 days	23/9/20	30/10/20	HK Working Day	306	308	0 days	0 days 30 days	100%	23/9/20	30/10/20			
08	CH. FC 2+87 - 3+19 OC	30 days	31/10/20	4/12/20	HK Working Day	307	309	0 days	0 days 30 days	100%	31/10/20	4/12/20			
09 10	CH. FC 3+19 - 3+51 OC CH. FC 3+51 - 3+83 OC	30 days 30 days	5/12/20 13/1/21	12/1/21 19/2/21	HK Working Day HK Working Day	308 309	310 311	0 days 0 days	0 days 30 days 0 days 30 days	100%	5/12/20 13/1/21	12/1/21 19/2/21			
11	CH. FC 3+83 - 4+15 OC	30 days	20/2/21	26/3/21	HK Working Day	310	312	0 days	0 days 30 days	100%	20/2/21	26/3/21			
2 3	CH. FC 4+15 - 4+47 OC CH. FC 4+47 - 4+87 OC	30 days 30 days	27/3/21 7/5/21	6/5/21 11/6/21	HK Working Day HK Working Day	311 312	313 300	0 days 0 days	0 days 30 days 0 days 30 days	100%	27/3/21 7/5/21	6/5/21 11/6/21	[]]]]]]]]]]]]]]]		
14	TKO South Waterfront Promenade (CH. FC4+87 - 8+71)	401 days	24/3/20	2/8/21	HK Working Day	JAL .		0 days	0 days 401 days	100%	24/3/20	2/8/21		 	H
15	CH. FC 4+87 - 5+19 OC with DN600 IT CH. FC 5+19 - 5+51 OC	75 days 30 days	24/3/20 22/6/20	26/6/20 28/7/20	HK Working Day HK Working Day		317	0 days 0 days	0 days 75 days 0 days 30 days	100%	24/3/20 22/6/20	26/6/20 28/7/20			T
7	CH. FC 5+51 - 5+83 OC	30 days	29/7/20	1/9/20	HK Working Day	316	318	0 days	0 days 30 days	100%	29/7/20	1/9/20			
8	CH. FC 5+83 - 6+15 OC	30 days	2/9/20	8/10/20	HK Working Day	317	319 320	0 days	0 days 30 days	100%	2/9/20 9/10/20	8/10/20 13/11/20			
0	CH. FC 6+15 - 6+47 OC CH. FC 6+47 - 6+79 OC	30 days 30 days	9/10/20 14/11/20	13/11/20 18/12/20	HK Working Day HK Working Day	318 319	320	0 days 0 days	0 days 30 days 0 days 30 days	100%	14/11/20	13/11/20			
1	CH. FC 6+79 - 7+11 OC	30 days	19/12/20	26/1/21	HK Working Day	320	322	0 days	0 days 30 days	100%	19/12/20	26/1/21			
2	CH. FC 7+11 - 7+43 OC CH. FC 7+43 - 7+75 OC	30 days 30 days	27/1/21 6/3/21	5/3/21 14/4/21	HK Working Day HK Working Day	321 322	323 324	0 days 0 days	0 days 30 days 0 days 30 days	100%	27/1/21 6/3/21	5/3/21 14/4/21			
4	CH. FC 7+75 - 8+07 OC	30 days	15/4/21	21/5/21	HK Working Day	323	325	0 days	0 days 30 days	100%	15/4/21	21/5/21			
5	CH. FC 8+07 - 8+39 OC CH. FC 8+39 - 8+71 OC	30 days 30 days	22/5/21 28/6/21	26/6/21 2/8/21	HK Working Day HK Working Day	324 325	326	O days O days	0 days 30 days 0 days 30 days	100% 100%	22/5/21 28/6/21	26/6/21 2/8/21			
-	CH. FC 8+39 - 8+71 OC TKO Landfill Stage I Area B (CH. FC 8+71 - 13+26)	521 days	14/4/20	12/1/22	HK Working Day	and the second second		0 days	0 days 521 days	100%	14/4/20	12/1/22			++
	CH. FC 8+71 - 9+55 OC	90 days	24/9/21	12/1/22	HK Working Day		217	0 days	0 days 90 days	100%	24/9/21 18/9/20	12/1/22 23/9/21			
9	CH. FC 9+55 - 12+00 OC with DN150 DAV CH. FC 12+00 - 12+30 OC	300 days 30 days	18/9/20 14/8/20	23/9/21 17/9/20	HK Working Day HK Working Day	330 331	328 329	0 days 0 days	0 days 300 days 0 days 30 days	100% 100%	18/9/20 14/8/20	17/9/20			
1	CH. FC 12+30 - 12+62 OC with Monitoring Chamber	50 days	15/6/20	13/8/20	HK Working Day		330	0 days	0 days 50 days	100%	15/6/20	13/8/20			1
2	CH. FC 12+62 - 13+02 OC CH. FC 13+02 - 13+26 OC	50 days 28 days	15/5/20 14/4/20	14/7/20 18/5/20	HK Working Day HK Working Day			0 days 0 days	0 days 50 days 0 days 28 days	100% 100%	15/5/20 14/4/20	14/7/20 18/5/20			11
	Trenchless Works	1234 days	2/8/19	28/9/23	HK Working Day			7 days	7 days 1234 days	55%	2/8/19	NA			++
5	Wan Po Road J/O Chun Wang Street (CH.A3+62(Pit 1) to CH.A5+29.5(Pit 2)	308 days	27/2/21	12/3/22 30/4/21	HK Working Day	16955	834 337,338	O days O days	0 days 308 days 0 days 50 days	100%	27/2/21 27/2/21	12/3/22 30/4/21			
,	Construction of Recieving Pit - Pit 1 Construction of Jacking Pit - Pit 2	50 days 50 days	3/5/21	2/7/21	HK Working Day HK Working Day	336	338	0 days 0 days	0 days 50 days 0 days 50 days	100%	3/5/21	2/7/21			
3	TBM Establishment at Pit 2	15 days	3/7/21	20/7/21	HK Working Day	336,337	339	0 days	0 days 15 days	100%	3/7/21	20/7/21			
	Sleeve Pipe Jacking (CH. A3+62 - CH.A5+10)(L=180m, 4.5m/d) Grouting around Sleeve Pipes & Remove TBM Establishment at Pit 2	40 days 6 days	21/7/21 6/9/21	4/9/21 11/9/21	HK Working Day HK Working Day	338 339	340 341	O days O days	0 days 40 days 0 days 6 days	100% 100%	21/7/21 6/9/21	4/9/21 11/9/21			
	Setup Guide Rail for Pipe Laying (Pit 2 - Pit 1)	6 days	13/9/21	18/9/21	HK Working Day	340	342	0 days	0 days 6 days	100%	13/9/21	18/9/21			
	DN1200 MS Pipe Laying inside Sleeve Pipe (8m per 3 days) Formwork, Setup and Annular Grouting (the gap between Pipes and Sleeve Pipe	68 days s) 10 days	20/9/21 11/12/21	10/12/21 22/12/21	HK Working Day HK Working Day	341 342	343 344,345	0 days 0 days	0 days 68 days 0 days 10 days	100%	20/9/21 11/12/21	10/12/21 22/12/21			
4	Pipe Connection and Construction of Combined Inspection Tee and Washout Chamber (Type I) at Pit 1	45 days	23/12/21	19/2/22	HK Working Day	343	346	0 days	0 days 45 days	100%	23/12/21	19/2/22			
5	Pipe Connection and Construction of Combined Inspection Tee and Washout	45 days	23/12/21	19/2/22	HK Working Day	343	347	0 days	0 days 45 days	100%	23/12/21	19/2/22			
5	Chamber (Type I) at Pit 2 Backfill, Remove ELS and Extract Sheetpile at Pit 1	18 days	21/2/22	12/3/22	HK Working Day	344		0 days	0 days 18 days	100%	21/2/22	12/3/22			
7	Backfill, Remove ELS and Extract Sheetpile at Pit 2	18 days	21/2/22	12/3/22	HK Working Day			0 days	0 days 18 days	100%	21/2/22	12/3/22			
3	Wan Po Road (from Chun Yat Street to Shek Kok Road) (Pit A to Pit D) EWN046 - Realignment of Trenchless Alignment along Wan Po Road from	1234 days 1 day	2/8/19 2/8/19	28/9/23 2/8/19	HK Working Day Calendar Day	100000	834 356	O days O days	0 days 1234 days 0 days 1 day	47% 100%	2/8/19 2/8/19	2/8/19			Π
	CH.A13+70 to CH.A 22+70	1 day	2/0/15	2/0/15	Calendar Day		330	0 days	o days i day	10070					
0	CE29 - Tree Transplant Works near CHA13+70 Temporary Diversion of Unchartered Underground Utilities Near Wan O Road at	30 days 30 days	23/9/19 8/8/19	29/10/19 11/9/19	HK Working Day HK Working Day	32 29		0 days 0 days	0 days 30 days 0 days 30 days	100%	23/9/19 8/8/19	29/10/19			
	CH.A16+00 (Pit B)	50 0893	0/0/15		The Working Duy	2.5		0 0015							
2	Underground Utility Detection Survey for Working Pit D Removal of Existing Planter for Jacking Pit A	30 days 6 days	2/8/19 15/6/20	5/9/19 20/6/20	HK Working Day HK Working Day	28	354 359	0 days 0 days	0 days 30 days 0 days 6 days	100%	2/8/19 15/6/20	5/9/19 20/6/20			
4	Confirmation of Revised Lcoation of Pit D	1 day	6/9/19	6/9/19	Calendar Day	352	335	0 days	0 days 1 day	100%	6/9/19	6/9/19			
5	TTA submission and Approval , Suspension of Parking Meters and TTA Implement	t for 90 days	19/8/20	4/12/20	HK Working Day		362	0 days	0 days 90 days	100%	19/8/20	4/12/20			
;	Jacking Pit D ELS Design Submission and Method Statement with ICE Certificate	30 days	3/8/19	6/9/19	HK Working Day	349	357	0 days	0 days 30 days	100%	3/8/19	6/9/19			
	Approval of Design Submission and Method Statement	6 days	7/9/19	13/9/19	HK Working Day	356		0 days	0 days 6 days	100%	7/9/19	13/9/19			
	Inspection Pit Excavations Inspection Pit for Pit A	406 days 7 days	5/8/19 22/6/20	12/12/20	HK Working Day HK Working Day	353	364	0 days 0 days	0 days 406 days 0 days 7 days	100%	5/8/19 22/6/20	12/12/20 30/6/20			
	Inspection Pit for Pit B	7 days	5/8/19	12/8/19	HK Working Day		365	0 days	0 days 7 days	100%	5/8/19	12/8/19			
2	Inspection Pit for Pit C Inspection Pit at Pit D	7 days 7 days	22/11/19 5/12/20	29/11/19 12/12/20	HK Working Day HK Working Day	355	366	0 days 0 days	0 days 7 days 0 days 7 days	100%	22/11/19 5/12/20	29/11/19 12/12/20			
1	Construction of Pits (A, B, C and D)	723 days	13/8/19	18/1/22	HK Working Day			0 days	0 days 723 days	100%	13/8/19	18/1/22		 ++++++++++++++++++++++++++++	++
4 5	Pit A Pit B with additional ground grouting works	462 days 664 days	2/7/20 13/8/19	18/1/22 6/11/21	HK Working Day HK Working Day	359 360	386,388 399	0 days 0 days	0 days 462 days 0 days 664 days	100% 100%	2/7/20 13/8/19	18/1/22 6/11/21			11
6	Pit B with additional ground grouting works Pit C with additional ground grouting works	295 days	30/11/19	27/11/20	HK Working Day			0 days 0 days	0 days 664 days 0 days 295 days	100%	30/11/19	27/11/20			++
	Pit D	112 days	10/7/21	20/11/21	HK Working Day	-	404	0 days	0 days 112 days	100%	10/7/21	20/11/21			
3	New Routing From Pit A to Pit D Instruction to Change Pit A to Pit D by Trenchless Method to Open Cut Metho	433 days d & 1 day	14/4/22 14/4/22	28/9/23 14/4/22	HK Working Day HK Working Day		370	0 days 0 days	0 days 433 days 0 days 1 day	0% 0%	NA NA	NA			
	Handshield					200									
	XP Application for WPR, SKR and Open Trench at Shek Kok Road TTA Application and Endorsement	60 days 45 days	19/4/22 2/7/22	30/6/22 23/8/22	HK Working Day HK Working Day	369 370	382,371 374,375	0 days 0 days	0 days 60 days 0 days 45 days	0% 0%	NA NA	NA			
	Trial Pit Excavation at Pit A1	3 days	14/5/22	17/5/22	HK Working Day			409 days	409 days 3 days	0%	NA	NA			
1	Removal of Central Divider between Wan O Road amd Shek Kok Road Trial Pit Excavation at Pit C1	81 days 10 days	16/5/22 24/8/22	19/8/22 3/9/22	HK Working Day HK Working Day	371	383	330 days O days	330 days 81 days 0 days 10 days	0% 0%	NA	NA			
5	Trial Pit Excavation at Pit D1	10 days	24/8/22	3/9/22	HK Working Day	371	380,381,384	0 days	0 days 10 days	0%	NA	NA			
5	Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m)	124 days 60 days	17/5/22 14/10/22	13/10/22 22/12/22	HK Working Day HK Working Day	376	377,201 378	0 days 0 days	136 days 124 days 136 days 60 days	0% 0%	NA NA	NA			
	Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m) Pipe Laying (OC) crossing WPR Junction with Wan O Road to Central Divider (7		23/12/22	18/4/23	HK Working Day	376	513	136 days	136 days 90 days	0%	NA	NA			
			20/5/22	12/7/23	HK Working Day			67 days	67 days 240 days	0%	NA	NA			
	Pipe Laying (OC) along Central Divider to Pit C1 (340m) Pipe Laying (OC) from Pit D1 to Pit D (1st 200m)	340 days 200 days	5/9/22	11/5/23	HK Working Day			117 days	67 days 340 days 117 days 200 days	0%	NA	NA			
	Pipe Laying (OC) from Pit D1 to Pit D (Remaining 110m)	250 days	5/9/22	12/7/23	HK Working Day		386	67 days	67 days 250 days	0% 0%	NA NA	NA NA			
	Construction of Pit A1 Construction of Pit C1	90 days 90 days	2/7/22 5/9/22	18/10/22 21/12/22	HK Working Day HK Working Day	370 374	387	0 days 0 days	97 days 90 days 0 days 90 days	0%	NA	NA			
	Construction of Pit D1	90 days	5/9/22	21/12/22	HK Working Day	375	387	0 days	0 days 90 days	0%	NA	NA			
; ;	Construction of Pit A0 Headshield Tunneling fom Pit A to Pit A1 (102m)	60 days 85 days	29/6/22 19/10/22	7/9/22 1/2/23	HK Working Day HK Working Day	364,382	388 389	0 days 0 days	210 days 60 days 97 days 85 days	0% 0%	NA	NA NA			
7	Headshield Tunneling fom Pit D1 to Pit C1 (64m)	107 days	22/12/22	8/5/23	HK Working Day	383,384	390	0 days	0 days 107 days	0%	NA	NA			
3	Headshield Tunneling fom Pit A to Pit A0 (20m)	34 days	8/9/22	20/10/22	HK Working Day	364,385	391 392,393	0 days	210 days 34 days	0% 0%	NA	NA			
2	MS Pipe Laying in Segment from Pit A to Pit A1 MS Pipe Laying in Segment from Pit D1 to Pit C1	40 days 60 days	2/2/23 9/5/23	20/3/23 20/7/23	HK Working Day HK Working Day	386 387	392,393 395	0 days 0 days	97 days 40 days 0 days 60 days	0%	NA	NA			
	MS Pipe Laying in Segment from Pit A to Pit A0	10 days	21/10/22	1/11/22	HK Working Day	388	392,394,396	0 days	210 days 10 days	0%	NA	NA			
2	Pipe Connection works & Construction Special Combined Insepction Washout Chamber at Pit A	60 days	21/3/23	5/6/23	HK Working Day	389,391		97 days	97 days 60 days	0%	NA	NA			
1	Pipe Connection works at Pit A1 concrete thrust block	30 days	21/3/23	28/4/23	HK Working Day	389		127 days	127 days 30 days	0%	NA	NA			
	Pipe Connection works at Pit AO and concrete thrust block Pipe Connection Works and construction of Inspoection Chamber at Pit C1	30 days 60 days	2/11/22 21/7/23	6/12/22 28/9/23	HK Working Day HK Working Day	391 390		240 days 0 days	240 days 30 days 0 days 60 days	0% 0%	NA	NA			

Original Contract due	CE28 20/5/ Dividing Date:	2022	CE67(27/7/ CE57(Section II):	Section II): 2023 Planned Completion	1
Original Contract due Date: 18/5/2021 2021 2021 Q4 Q1 Q3 Q4 S O	14/4/2022 2022	6/10/2022	7/2/2023	Vianned Completion (WPR A-D):10/11/2023 2024 3 Q1 Q2 Q1 J Z024 V2 V2 V3 V4 V5 V4 V5 V4 V4	2025
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Task N	Name -	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish	2018 22 Q1 Q2 Q3 Q4 0 D 1 EM Alvit 1 Lats Olvito	2019 2020 Q1 Q2 Q3 Q4 Q1 Q2 J F M A M J J A S O N D J F M A 1
	Pipe Connection Works and Concrete Thrust Block at Pit D1	30 days	2/11/22	6/12/22	HK Working Day	391		240 days	240 days 30 days	0%	NA	NA		THE REPORT AND THE AT
7 B	Pipe Connection Works and construction of Washout Chamber at Pit D TBM Pipe Jacking (Pit B to Pit C) and Pipe Installation	30 days 202 days	18/11/22 8/11/21	22/12/22	HK Working Day HK Working Day	408,441	409	0 days 359 days	208 days 30 days 359 days 202 days	0% 64%	NA 8/11/21	NA		
9	TBM Establishment at Pit B with additional ground treatment for stopping water ingress		8/11/21	24/3/22	HK Working Day	365	400	0 days	0 days 112 days	100%	8/11/21	24/3/22		
D	Jacking DN1600 Precast Concrete Sleeve Pipe From Pit B to Pit C (L=326m;	30 days	25/3/22	4/5/22	HK Working Day	399	401	0 days	359 days 30 days	57%	25/3/22	NA		
1	2.5m/day) Extracting TBM and remove TBM from Pit B	15 days	5/5/22	23/5/22	HK Working Day	400	402	0 days	359 days 15 days	0%	NA	NA		
2	ELS Removal and Reinstatement of Road works, Planter and Gullies' drains	45 days 341 days	24/5/22	16/7/22 16/1/23	HK Working Day HK Working Day	401		359 days 208 days	359 days 45 days 208 days 341 days	0% 61%	NA 22/11/21	NA		
1	Pipe Jacking from Pit D to Pit C and Pipe Installation TBM Establishment at Pit D	47 days	22/11/21	18/1/22	HK Working Day	367	405	0 days	0 days 47 days	100%	22/11/21	18/1/22		
5	DN1920 Steel Jacked Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (370m; 2.5m/day)	51 days	19/1/22	22/3/22	HK Working Day	404		0 days	0 days 51 days	100%	19/1/22	22/3/22		
5	Pipe Jacking stopped on 23/3/2022	1 day	23/3/22	23/3/22	HK Working Day			0 days	0 days 1 day	100%	23/3/22	23/3/22		
7 ·	Abandonded MTBM and Filling the Installed Sleeve Pipe with Grout Backfilling Pit D to formation level of washout pumppit	15 days 30 days	15/9/22 5/10/22	3/10/22 8/11/22	HK Working Day HK Working Day	407	408 397	0 days 8 days	216 days 15 days 216 days 30 days	0% 0%	NA	NA		
9	ELS Removal and Reinstatement of Road works	18 days	23/12/22	16/1/23	HK Working Day	397	-	208 days	208 days 18 days	0%	NA	NA		
	CE67 - Wan Ro Road (From Shek Kwok Road to Lohas Park Road) Suspension of Nightwork Section (CH.A22+70 to 24+00) due to Restriction with	1126 days 1 day	27/9/19 3/8/20	19/7/23 3/8/20	HK Working Day Calendar Day		835	0 days 0 days	68 days 1126 days 0 days 1 day	63% 100%	27/9/19 3/8/20	NA 3/8/20		
2	Railway Protection Zone and TMLG requirements					33	413		0 days 70 days		27/9/19	5/12/19		
3	CE24 - Tender List Prepare & Approval, Tendering Process and PM's Approval Coordination with MTR for Ground Investigation Works under MTR Tunnels	70 days 55 days	27/9/19 6/12/19	5/12/19 14/2/20	Calendar Day HK Working Day	412	413	0 days 0 days	0 days 55 days	100% 100%	6/12/19	14/2/20		
4	Mobilization and Establishment of GI equipment	4 days 30 days	15/2/20 20/2/20	19/2/20 25/3/20	HK Working Day HK Working Day	413 414	415 416	0 days 0 days	0 days 4 days 0 days 30 days	100% 100%	15/2/20 20/2/20	19/2/20 25/3/20		
5	Ground Investigation GI No. 3 PM review the Aignment and Profiles and Obtain Consent from MTR for the decisior		26/3/20	10/6/20	HK Working Day	414	410	0 days	0 days 60 days	100%	26/3/20	10/6/20		
,	of realignment Issue CE No. 77 - Design of Water Main Structure and Modification Works to the	1 day	21/10/20	21/10/20	HK Working Day	64	418	0 days	0 days 1 day	100%	21/10/20	21/10/20		
	Affected Geotechnical Features in Wan Po Road and Lohas Park Road													
3	Quotation Submission and Acceptant for CE No. 77 CE No. 77 - Submission of Geotechnical Assessment Repot	161 days 42 days	21/10/20 11/5/21	10/5/21 30/6/21	HK Working Day HK Working Day	417 418	419 420	0 days 0 days	0 days 161 days 0 days 42 days	100% 100%	21/10/20 11/5/21	10/5/21 30/6/21		
1	CE No. 77 - Design Submission	72 days	2/7/21	24/9/21	HK Working Day	419	421	0 days	0 days 72 days	100%	2/7/21	24/9/21		
2	CE No. 77 - Approval of Design Submission Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park Roa	1 day ic1 day	24/9/21 11/8/21	24/9/21 11/8/21	HK Working Day HK Working Day	420 65	423 424,425	0 days 0 days	0 days 1 day 0 days 1 day	100% 100%	24/9/21 11/8/21	24/9/21 11/8/21		
3	Obtain MTR's approval on the alignment and construction method about MTR's	91 days	25/9/21	14/1/22	HK Working Day	421	450,451,452	0 days	0 days 91 days	100%	25/9/21	14/1/22		
1	tunnels Tender Process and Tender Award for CE No. 67	77 days	11/8/21	11/11/21	HK Working Day	422	466	0 days	0 days 77 days	100%	11/8/21	11/11/21		
5	TTA approval and Implement for CE No. 67	125 days	11/8/21	10/1/22	HK Working Day	422	430,431,450,451,452	0 days	0 days 125 days	100%	11/8/21	10/1/22		
5	Handshield Crossing Wan Po Road (CH.FAO+15 to CH.FAO+50) Issue CE No. 98 - Tree Felling at Lohas Park Road	543 days 1 day	18/1/21 18/1/21	17/11/22 18/1/21	HK Working Day HK Working Day	66	428	208 days O days	208 days 543 days O days 1 day	56% 100%	18/1/21 18/1/21	18/1/21		
3	TPRP Submission and Approval for Tree at Slope Feature 12SW-A/FR102	121 days 7 days	18/1/21 19/6/21	18/6/21 26/6/21	HK Working Day HK Working Day	427 428	429 430	0 days 0 days	0 days 121 days 0 days 7 days	100% 100%	18/1/21 19/6/21	18/6/21 26/6/21		
2	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102 Strengthen Works at Feature 12SW-A/R27	90 days	11/1/22	4/5/22	HK Working Day	429,425	430	0 days	194 days 90 days	86%	11/1/22	NA		
2	Strengthen Works at Feature 12SW-A/R28	90 days 30 days	11/1/22 5/5/22	4/5/22 10/6/22	HK Working Day HK Working Day	425 430	433 434	0 days 0 days	194 days 90 days 194 days 30 days	86% 0%	11/1/22 NA	NA		
2	Concrete Coring and forming a opening on retaining wall (R27) Concrete Coring and forming a opening on retaining wall (R28)	30 days	5/5/22	10/6/22	HK Working Day	430	434	0 days	194 days 30 days	0%	NA	NA		
1 5	Handshield Establishment Mild Steel Segment Rings in Soil Mix (35m; 0.4m/day)	14 days 58 days	11/6/22 28/6/22	27/6/22 3/9/22	HK Working Day HK Working Day	432,433 434	435 436	0 days 0 days	194 days 14 days 194 days 58 days	0% 0%	NA	NA		
5	Remove establishment	6 days	5/9/22	10/9/22	HK Working Day	435	437	0 days	194 days 6 days	0%	NA	NA		
7	Setup for Pipe Laying inside jacking DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	6 days 15 days	13/9/22 20/9/22	19/9/22 8/10/22	HK Working Day HK Working Day	436 437	438 439	0 days 0 days	194 days 6 days 194 days 15 days	0% 0%	NA	NA		
3	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days	10/10/22	15/10/22	HK Working Day	438	440	0 days	194 days 6 days	0%	NA	NA		
	Grouting Works (30 meter/day) Pipe laying Works From Pit D to CH.FA0+15	4 days 24 days	17/10/22 21/10/22	20/10/22 17/11/22	HK Working Day HK Working Day	439 440	441,443 397	0 days 0 days	194 days 4 days 208 days 24 days	0% 0%	NA	NA		
2	Vertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA0+50 to	216 days	21/10/22	15/7/23	HK Working Day			71 days	71 days 216 days	0%	NA	NA		
3	CH.FA0+85) Vertical pipes with Concrete Surround	33 days	21/10/22	28/11/22	HK Working Day	440	444	0 days	194 days 33 days	0%	NA	NA		
5	Exposed pipes with concrete surround	30 days	29/11/22	5/1/23	HK Working Day	443	445	123 days	194 days 30 days	0%	NA	NA		
5	Open cut pipe laying with concrete surround Hand Shield Pipe Jacking crossing Lohas Park Road	30 days 314 days	9/6/23	15/7/23 8/6/23	HK Working Day	444,462		71 days 79 days	71 days 30 days 79 days 314 days	0% 0%	NA	NA		
7		0 days	19/5/22	19/5/22	Calendar Day		450	0 days	436 days 0 days	0% 0%	NA	NA		
)	MTR Consent for Construction of Pit F MTR Consent for Construction of Pit G	O days O days	1/6/22 6/6/22	1/6/22 6/6/22	Calendar Day Calendar Day		451 452	0 days 0 days	82 days 0 days 418 days 0 days	0%	NA	NA		
	Construction of Receiving Pit E	60 days	19/5/22	29/7/22	HK Working Day	423,425,447	453	355 days	355 days 60 days	0%	NA	NA		
,	Construction of Jacking Pit F Construction of Receiving Pit G	60 days 60 days	1/6/22 6/6/22	11/8/22 15/8/22	HK Working Day HK Working Day	423,425,448 423,425,449	453	0 days 341 days	68 days 60 days 341 days 60 days	0% 0%	NA NA	NA NA		
	Establishment at Pit F	12 days	12/8/22	25/8/22	HK Working Day	451	454	0 days 0 days	68 days 12 days 68 days 100 days	0% 0%	NA	NA		
5	Mild Steel Segment Rings (Pit F - Pit E) in Soil Mix (40m; 0.4m/day) Mild Steel Segment Rings (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	100 days 50 days	26/8/22 24/12/22	23/12/22 27/2/23	HK Working Day HK Working Day	453 454	455 456	0 days 0 days	68 days 100 days 68 days 50 days	0%	NA	NA		
5	Remove setup Including Thrust Wall at Pit F	12 days 12 days	28/2/23 14/3/23	13/3/23 27/3/23	HK Working Day HK Working Day	455 456	457 458	0 days 0 days	68 days 12 days 68 days 12 days	0% 0%	NA	NA		
3	Setup for Pipe Laying inside jacking Pit F DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	12 days 30 days	14/3/23 28/3/23	6/5/23	HK Working Day	457	459	0 days	68 days 30 days	0%	NA	NA		
)	Modify Setup for Pipe Laying inside jacking Pit F DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)	6 days 15 days	8/5/23 15/5/23	13/5/23 1/6/23	HK Working Day HK Working Day	458 459	460 461	0 days 0 days	68 days 6 days 68 days 15 days	0% 0%	NA	NA		
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	2/6/23	5/6/23	HK Working Day	460	462	0 days	68 days 3 days	0%	NA	NA		
2	Grouting Works (20 meter/day) Vertical Pipes, Exposed Pipes & Buried Pipes above MTR Tunnels (CH:FA1+50 to	3 days 496 days	6/6/23 12/11/21	8/6/23 19/7/23	HK Working Day HK Working Day	461	445,464	0 days 68 days	68 days 3 days 68 days 496 days	0% 83%	NA 12/11/21	NA		
	CH.FA2+17)			1.1.1		a series of the			State of the second					
5	Vertical pipes with Concrete Surround Exposed pipes with concrete surround	33 days 60 days	9/6/23 26/2/22	19/7/23 13/5/22	HK Working Day HK Working Day	462 469		68 days 419 days	68 days 33 days 419 days 60 days	0% 67%	NA 26/2/22	NA		
5	Site Clearance at Storage Yard	3 days	12/11/21	15/11/21	HK Working Day	424	467,469	0 days	O days 3 days	100%	12/11/21	15/11/21		
3	Plate Load Tests for Tower P2 Construction footing of Tower P2 at CH.FA1+76	34 days 72 days	16/11/21 28/12/21	24/12/21 25/3/22	HK Working Day HK Working Day	466 467	468	0 days 0 days	O days 34 days O days 72 days	100% 100%	16/11/21 28/12/21	24/12/21 25/3/22		
)	Open cut pipe laying with concrete surround (CH.FA1+76 to CH.FA2+04)	82 days	16/11/21	25/2/22	HK Working Day	466	465,470	0 days	0 days 82 days	100%	16/11/21	25/2/22		
)	Open cut pipe laying from CH.FA2+04 to CH.FB0+03 & Connect to DN900SV Chamber	42 days	26/2/22	20/4/22	HK Working Day	469		437 days	437 days 42 days	95%	26/2/22	NA		
	Miscellaneous	1125 days	20/2/18	4/12/21	HK Working Day	122 125		0 days	0 days 1125 days	100%	20/2/18	4/12/21 29/11/19	 	
	Inspection Pit Excavation for Pit 1 to Pit 48 (Wan Po Road (OC & MTBM), CE04, CE05, CE28, CE34)	528 days	20/2/18	29/11/19	HK Working Day	123,125		0 days	0 days 528 days		20/2/18			
	Liaison with MTRC for works inside MTR Railway Protection Zone Excavation, Pipe Laying, Backfilling and Reinstatement (CH. 80+00 to 81+19)	1200 days	23/8/18 5/11/19	4/12/21 5/11/19	Calendar Day Calendar Day	121,137		0 days 0 days	0 days 1200 days 0 days 1 day	100%	23/8/18 5/11/19	4/12/21 5/11/19		
5	Section (CH. B0+00 - CH.B1+19) Superseded by CE34	1 day	5/11/19	5/11/19	Calendar Day	34		0 days	0 days 1 day	100%	5/11/19	5/11/19		
	Excavation, Pipe Laying, Backfilling and Reinstatement (CH. A42+10 to A58+00)	795 days 1 day	10/8/19 11/6/20	26/8/22 11/6/20	None Calendar Day	53,41		284 days O days	284 days 795 days O days 1 day	96% 100%	10/8/19 11/6/20	NA 11/6/20		
3	Nightworks Section (CH.A55+42 to CH.A58+00) superseded by Realignment between Pit		18/12/20	26/8/22	HK Working Day	55/11		324 days	324 days 498 days	82%	18/12/20	NA		
)	P and Pit R PMI - Changing Construction Method and Alignment from Pit P to Pit T	1 day	30/7/21	30/7/21	HK Working Day			0 days	0 days 1 day	100%	30/7/21	30/7/21		
)	Ground Investigation at Pit R	3 days	21/12/20	23/12/20	HK Working Day			0 days	0 days 3 days	100%	21/12/20	23/12/20		
	Trenchless Works between Pit P and Pit Y and Pit Y to Pit R Supersede Nightworks Section (CH.A55+42 to CH.A58+00)	498 days	18/12/20	26/8/22	HK Working Day		839	0 days	324 days 498 days	82%	18/12/20	NA		
	Pit Construction (Pit Y and Pit R)	223 days	18/12/20	20/9/21	HK Working Day			0 days	0 days 223 days	100%	18/12/20	20/9/21		
	Receiving Pit Y Jacking / Receiving Pit R	74 days 25 days	25/6/21 16/7/21	20/9/21 13/8/21	HK Working Day HK Working Day		498	0 days 0 days	0 days 74 days 0 days 25 days	100% 100%	25/6/21 16/7/21	20/9/21 13/8/21		
	Issue CE No. 94 - Site Clearance of Affected Trees and Plants for Mainlaying works		18/12/20	18/12/20	HK Working Day	67		0 days	0 days 1 day	100%	18/12/20	18/12/20		
	near Po Hong Road and Ling Hong Road Trenchless Works between Pit P and Pit R and Pipe Installation	385 days	12/5/21	26/8/22	HK Working Day			324 days	324 days 385 days	72%	12/5/21	NA		
	WSD agreed to carry out Horizontal grout from Pit P to Pit Y (45m)	1 day	12/5/21	12/5/21	Calendar Day	407	488	0 days	0 days 1 day	100%	12/5/21	12/5/21		
3	Mobilization and Carry out Horizontal grouting Establishment and Set up for pipe jacking at Pit P	43 days 93 days	12/5/21 5/7/21	3/7/21 23/10/21	HK Working Day HK Working Day	487 488	489 490	0 days 0 days	0 days 43 days 0 days 93 days	100% 100%	12/5/21 5/7/21	3/7/21 23/10/21		
)	Jacking DN1600 Precast Concrete Sleeve Pipe (217m; 3.0m/day)	72 days	25/10/21	19/1/22	HK Working Day	489	491	0 days	0 days 72 days	100% 84%	25/10/21	19/1/22		
	DN1200 MS Pipe Laying inside jacking pipe (217m) (8m per 3 days) Formwork & Setup for Grouting the gap between pipe and Sleeve pipe	82 days 3 days	20/1/22 5/5/22	4/5/22 7/5/22	HK Working Day HK Working Day	490 491	492 493	0 days 0 days	324 days 82 days 324 days 3 days	84%	20/1/22 NA	NA		

CE28	3:	CE67(Section II): 27/7/2023
20/5 inal Contract due Dividing Date:	CE51: CE5	7(Section II) Planned Completion
2: 18/5/2021 14/4/2022	6/10/2022 7/2/ 202	(WPR A-D)-10/11/2023
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		Duration	Start	Finish	Task Calendar	Predecessors	Successors		Total Slack Duration	% Complete	Actual Start	Actual Finish	2018	Q2 Q3	04	2019 Q1	02 0	1. 1.04	2020 Q1 Q2	03
93	Grouting Works (30 meter/day)	8 days	10/5/22	18/5/22	HK Working Day	492	494	0 days	324 days 8 days	0%	NA	0 NA	NDJFM	LINA	ASON	DJFM	AMJJ	ASONI	DJFMAM	JJAS
94 95	Pipe Connection inside Working Pit P Construction of Combined chamber at Pit P	18 days 48 days	19/5/22 10/6/22	9/6/22 5/8/22	HK Working Day HK Working Day	493 494	495 496	0 days 0 days	324 days 18 days 324 days 48 days	0% 0%	NA NA	NA NA						1111		
96	Remove ELS including extracting sheet piles at Pit P; Reinstatement	18 days	6/8/22	26/8/22	HK Working Day	495	1.50	324 days	324 days 18 days	0%	NA	NA						1111		HH
98	Trenchless Works between Pit R and Pit Y and Pipe Installation Establishment at Pit R	158 days 10 days	14/8/21	24/2/22 25/8/21	HK Working Day HK Working Day	484	499	0 days 0 days	0 days 158 days 0 days 10 days	100%	14/8/21 14/8/21	24/2/22 25/8/21						1111		
99 00	Mild Steel Sleeve Pipe in Mix of Soil (26m)(0.8m/day) Remove Setup at Pit R	35 days 13 days	26/8/21 8/10/21	7/10/21 23/10/21	HK Working Day HK Working Day	498 499	500 501	0 days 0 days	0 days 35 days 0 days 13 days	100% 100%	26/8/21 8/10/21	7/10/21 23/10/21								
01	Setup for Pipe Laying inside Jacking Pit R	12 days	25/10/21	6/11/21	HK Working Day	500	502	0 days	0 days 12 days	100%	25/10/21	6/11/21								
02 03	DN1200 MS Pipe Laying inside Jacking Pipe (4m per 3 days) Formwork & Setup for Grouting the gap between pipe and Sleeve	13 days 3 days	8/11/21 23/11/21	22/11/21 25/11/21	HK Working Day HK Working Day	501 502	503 504	0 days 0 days	0 days 13 days 0 days 3 days	100% 100%	8/11/21 23/11/21	22/11/21 25/11/21								
04	Grouting Works (30m/day)	9 days	26/11/21	6/12/21	HK Working Day	503	505,607	0 days	0 days 9 days	100%	26/11/21	6/12/21								
6	Pipe Connection inside Working Pit R CE28 - Trenchless Works near HK Velodrome	14 days 680 days	9/2/22	24/2/22 3/5/22	HK Working Day HK Working Day	504,607	838	0 days 0 days	0 days 14 days 420 days 680 days	100%	9/2/22	24/2/22 NA								++++
07 08	Tendering and Subletting for CE28	99 days	13/1/20	16/5/20	HK Working Day	41	500	0 days	0 days 99 days	100%	13/1/20	16/5/20								4
09	TTA preparation, SLG meetings, obtain RA and TPRP Approval for CE28 Coordination with LCSD and Notification to District Councillors	128 days 14 days	13/1/20 20/5/20	19/5/20 2/6/20	Calendar Day Calendar Day	41 508	509 510	O days O days	0 days 128 days 0 days 14 days	100%	13/1/20 20/5/20	19/5/20 2/6/20							TIT	4111
10 11	Forming Temporary Vehicle Access at HK Velodrome	5 days	3/6/20	8/6/20	HK Working Day	509	511	0 days	0 days 5 days	100%	3/6/20	8/6/20								
12	Tree Transplanting Working & Tree Removal Works at TKO Sport Ground (CE No. 28) Tree Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	10 days 3 days	9/6/20 20/6/20	19/6/20 23/6/20	HK Working Day HK Working Day	510 511	512 513	0 days 0 days	0 days 10 days 0 days 3 days	100%	9/6/20 20/6/20	19/6/20 23/6/20								
13	Mobilization of Sheet-piles and Driving Machines	7 days	24/6/20 4/7/20	3/7/20	HK Working Day	512	514,519,517	0 days	0 days 7 days	100%	24/6/20	3/7/20								
	Tree Survey along Cycle Track; TPRP Approval; Tree Removal Works along Cycle Tracks under CE28A	120 days	4/7/20	24/11/20	HK Working Day	513		0 days	0 days 120 days	100%	4/7/20	24/11/20								
5 .6	Construction of Jacking / Receiving Pits (L, M, N, O) Pit L	180 days 90 days	4/7/20 20/10/20	5/2/21 5/2/21	HK Working Day HK Working Day	517	521,567	0 days 0 days	0 days 180 days 0 days 90 days	100%	4/7/20 20/10/20	5/2/21 5/2/21								
7	Pit M	90 days	4/7/20	19/10/20	HK Working Day	513	516,525,521	0 days	0 days 90 days	100%	4/7/20	19/10/20								
., 8 .9	Pit N Pit O	90 days 90 days	20/10/20 4/7/20	5/2/21 19/10/20	HK Working Day HK Working Day	519 513	525FS-14 days,529 518,529,571	O days O days	0 days 90 days 0 days 90 days	100% 100%	20/10/20 4/7/20	5/2/21 19/10/20								
0	TBM Sleeve Pipe Jacking from Pit M to Pit L	59 days	22/3/21	4/6/21	HK Working Day		533	0 days	0 days 50 days	100%	22/3/21	4/6/21								
1 2	TBM Establishment at Pit M DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) (CH.GA0+09 to CH.GA1+80) in	15 days 38 days	22/3/21 13/4/21	12/4/21 28/5/21	HK Working Day HK Working Day	524,516,517 521	522 523	0 days 0 days	0 days 15 days 0 days 38 days	100% 100%	22/3/21 13/4/21	12/4/21 28/5/21								
	Soil (5m/day)																			
3	Grouting around Sleeve Pipes & Remove TBM Establishment at Pit M TBM Sleeve Pipe Jacking from Pit M to Pit N	6 days 48 days	29/5/21 21/1/21	4/6/21	HK Working Day	522	521,538	0 days 0 days	0 days 6 days 0 days 48 days	100%	29/5/21 21/1/21	4/6/21 20/3/21								
5	TBM Establishment at Pit M	15 days	21/1/21	6/2/21	HK Working Day	517,518FS-14 days	526	0 days	0 days 15 days	100%	21/1/21	6/2/21								
6	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit N) CH.GA1+86 to CH.GA3+20) in Soil (5m/day)	27 days	8/2/21	13/3/21	HK Working Day	525	527	0 days	0 days 27 days	100%	8/2/21	13/3/21								
27	(CH.GA1+86 to CH.GA3+20) in Soil (5m/day)	6 days	15/3/21	20/3/21	HK Working Day	526	544	0 days	0 days 6 days	100%	15/3/21	20/3/21								
8	TBM Sleeve Pipe Jacking from Pit O to Pit N TBM Establishment at Pit O	64 days 14 days	29/6/21 29/6/21	11/9/21 15/7/21	HK Working Day HK Working Day	582,518,519	544 530	0 days 0 days	0 days 64 days 0 days 14 days	100%	29/6/21 29/6/21	11/9/21 15/7/21								
0	DN1600 Precast Concrete Sleeve Pipe (Pit O - Pit N) (CH.GA3+13 to CH.GA5+08) in	44 days	16/7/21	4/9/21	HK Working Day	529	531	0 days	0 days 44 days	100%	16/7/21	4/9/21								
1	Soil (5m/day) Grouting around Sleeve Pipes & Remove TBM Establishment at Pit O	6 days	6/9/21	11/9/21	HK Working Day	530		0 days	0 days 6 days	100%	6/9/21	11/9/21								
2	Pipe Laying Inside Sleeve Pipes from Pit M to Pit L	160 days	5/6/21 5/6/21	14/12/21	HK Working Day	Ser ex have	575	0 days	0 days 160 days	100%	5/6/21	14/12/21								
4	Setup for Pipe Laying (Pit M - Pit L) DN1200 MS Pipe Laying inside Sleeve Pipe (171m-long, 4m per 2 days)	10 days 129 days	5/6/21 18/6/21	17/6/21 19/11/21	HK Working Day HK Working Day	520 533	534 535	O days O days	0 days 10 days 0 days 129 days	100%	5/6/21 18/6/21	17/6/21 19/11/21								1111
5	Formwork, Setup and Annular Grouting (the gap between Pipes and Sleeve Pipes) (30m per day)	9 days	20/11/21	30/11/21	HK Working Day	534	536	0 days	0 days 9 days	100%	20/11/21	30/11/21								1111
6	Pipe Connection at Pit L	12 days	1/12/21	14/12/21	HK Working Day	535	550	0 days	0 days 12 days	100%	1/12/21	14/12/21								1111
7	Pipe Laying Insdie Sleeve Pipes from Pit N to Pit M	107 days	22/3/21	2/8/21	HK Working Day	624	520	0 days	0 days 107 days	100%	22/3/21	2/8/21								1111
9	Setup for Pipe Laying (Pit N - Pit M) DN1200 MS Pipe Laying inside Sleeve Pipe (134m-long, 8m per 3 days)	6 days 51 days	29/3/21	27/3/21 2/6/21	HK Working Day HK Working Day	524 538	539 540	0 days 0 days	0 days 6 days 0 days 51 days	100% 100%	22/3/21 29/3/21	27/3/21 2/6/21								
10		8 days	3/6/21	11/6/21	HK Working Day	539	541,548	0 days	0 days 8 days	100%	3/6/21	11/6/21								
41	Pipe Connection at Pit M	12 days	12/6/21	26/6/21	HK Working Day	540	542	0 days	0 days 12 days	100%	12/6/21	26/6/21								
42	Construction of IT Chamber at Pit M Pipe Laying Insdie Sleeve Pipes from Pit O to Pit N	30 days 102 days	28/6/21	2/8/21	HK Working Day	541	551	0 days	0 days 30 days 0 days 102 days	100%	28/6/21 13/9/21	2/8/21								
14	Setup for Pipe Laying (Pit O - Pit N)	6 days	13/9/21	18/9/21	HK Working Day	528	545	0 days	0 days 6 days	100%	13/9/21	18/9/21								
45	DN1200 MS Pipe Laying inside Sleeve Pipe (195m total, 8m per 3 days) Formwork, Setup and Annular Grouting (the gap between Pipes and Sleeve	74 days 10 days	20/9/21 18/12/21	17/12/21 31/12/21	HK Working Day HK Working Day	544 545	546 547,548	0 days 0 days	0 days 74 days 0 days 10 days	100% 100%	20/9/21 18/12/21	17/12/21 31/12/21								
	Pipes)(30m per day)																			
17	Pipe Connection at Pit O Pipe Connection at Pit N	12 days 12 days	3/1/22 3/1/22	15/1/22 15/1/22	HK Working Day HK Working Day	546,586 540,546	553 552	0 days 0 days	0 days 12 days 0 days 12 days	100%	3/1/22 3/1/22	15/1/22								
9	Reinstatement under CE28	221 days	3/8/21	3/5/22	HK Working Day	The state of the state	2 August 1 and 1	420 days	420 days 221 days	92%	3/8/21	NA								
50	Remove ELS including extracting sheet piles at Pit L; Reinstatement of Cycle Track and planter	24 days	15/12/21	14/1/22	HK Working Day	536	554	0 days	0 days 24 days	100%	15/12/21	14/1/22								
1	Remove ELS including extracting sheet piles at Pit M; Reinstatement of Cycle Track and planter	24 days	3/8/21	30/8/21	HK Working Day	542	554	0 days	0 days 24 days	100%	3/8/21	30/8/21								
52	Remove ELS including extracting sheet piles at Pit N; Reinstatement of Cycle Track	24 days	17/1/22	16/2/22	HK Working Day	548	554	0 days	0 days 24 days	100%	17/1/22	16/2/22								
53	and planter Remove ELS including extracting sheet piles at Pit O; Reinstatement of Cycle Track	24 dave	17/1/22	16/2/22	HK Working Day	547		0 days	0 days 24 days	100%	17/1/22	16/2/22								
	and planter																			
54	Reinstament of Cycle Track and Temporary Access Road EE50 - Realignment of Water Mains at the Junction of WPR and PYP and the Junction of	60 days 795 days	17/2/22	3/5/22	HK Working Day HK Working Day	550,551,552	838	420 days 0 days	420 days 60 days 0 days 795 days	80%	17/2/22 10/8/19	NA 14/4/22						444	+++++	444
	PHR and PSR				The second second second				Second Second											
6 7	Tendering and Subletting for CE50 TTA preparation, SLG meetings, obtain RA for CE50	60 days 60 days	11/6/20 11/6/20	21/8/20 21/8/20	HK Working Day HK Working Day	53 53	558,559	0 days 0 days	0 days 60 days 0 days 60 days	100% 100%	11/6/20 11/6/20	21/8/20 21/8/20								二
8	Forming temporary Vehicle Access for Pit P	21 days	22/8/20	15/9/20	HK Working Day	557	561	0 days	0 days 21 days	100%	22/8/20	15/9/20								
9	TTA Implement for Po Yap Load Roundabout Trial Pit Excavation at Pit K	14 days 16 days	22/8/20 8/9/20	7/9/20 25/9/20	HK Working Day HK Working Day	557 559	560 564	0 days 0 days	0 days 14 days 0 days 16 days	100% 100%	22/8/20 8/9/20	7/9/20 25/9/20								
1	Trial Pit Excavation at Pit P	3 days	16/9/20	18/9/20	HK Working Day	558	565	0 days	0 days 3 days	100%	16/9/20	18/9/20								
52	MTR's Approval for Trenchless Works from Pit L to Pit K Construction of Jacking / Receiving Pits (K and P)	26 days 66 days	11/6/20 19/9/20	13/7/20 8/12/20	HK Working Day	53	STATISTICS IN COMMENT	0 days 0 days	0 days 26 days 0 days 66 days	100%	11/6/20 19/9/20	13/7/20 8/12/20								
54	Pit K	60 days	26/9/20	8/12/20	HK Working Day	560	567	0 days	0 days 60 days	100%	26/9/20	8/12/20								
6	Pit P Hand Shield Tunnelling (Pit K to Pit L)	60 days 68 days	19/9/20 6/2/21	1/12/20 5/5/21	HK Working Day HK Working Day	561	571 575	0 days 0 days	0 days 60 days 0 days 68 days	100%	19/9/20 6/2/21	1/12/20 5/5/21								
7	Establishment at Pit K	15 days	6/2/21	26/2/21	HK Working Day		568	0 days	O days 15 days	100%	6/2/21	26/2/21								
i8 i9		47 days 6 days	27/2/21 28/4/21	27/4/21 5/5/21	HK Working Day HK Working Day	567 568	569	0 days 0 days	0 days 47 days 0 days 6 days	100% 100%	27/2/21 28/4/21	27/4/21 5/5/21								
0	TBM Pipe Jacking (Pit P to Pit O)	406 days	10/8/19	18/12/20	HK Working Day	a state of the second second	583	0 days	0 days 406 days	100%	10/8/19	18/12/20						┍┿┿┿┿	+++++	++++
1		15 days 45 days	2/12/20 28/2/20	18/12/20 24/4/20	HK Working Day HK Working Day	565,519 45		0 days 0 days	0 days 15 days 0 days 45 days	100% 100%	2/12/20 28/2/20	18/12/20 24/4/20								
3	Remove setup including thrust wall at Pit P	6 days	10/8/19	16/8/19	HK Working Day	45 6		0 days	0 days 6 days	100%	10/8/19	16/8/19						•		
4 5	Pipe Laying Inside Sleeve Pipes from Pit K to Pit L Setup for Pipe Laying at Pit K	97 days 6 days	15/12/21 15/12/21	14/4/22 21/12/21	HK Working Day HK Working Day	532,566	576	0 days 0 days	0 days 97 days 0 days 6 days	100%	15/12/21 15/12/21	14/4/22 21/12/21								
6	DN1200 MS Pipe Laying inside jacking pipe (56m) (4m per 3 days)	42 days	22/12/21	15/2/22	HK Working Day	575	577	0 days	0 days 42 days	100%	22/12/21	15/2/22								
7		3 days 2 days	16/2/22 19/2/22	18/2/22 21/2/22	HK Working Day HK Working Day	576 577	578 579	0 days 0 days	0 days 3 days 0 days 2 days	100% 100%	16/2/22 19/2/22	18/2/22 21/2/22								
9	Pipe Connection Inside Pit L	7 days	22/2/22	1/3/22	HK Working Day	578	580	0 days	0 days 7 days	100%	22/2/22	1/3/22								
0		30 days 7 days	2/3/22 7/4/22	6/4/22 14/4/22	HK Working Day HK Working Day	579 580	581	0 days 0 days	0 days 30 days 0 days 7 days	100% 100%	2/3/22 7/4/22	6/4/22 14/4/22								
	and planter					500													11111	
3		151 days 6 days	19/12/20 19/12/20	28/6/21 28/12/20	HK Working Day HK Working Day	570	529 584	0 days 0 days	0 days 151 days 0 days 6 days	100%	19/12/20 19/12/20	28/6/21 28/12/20							'	
4	DN1200 MS Pipe Laying inside jacking pipe (200m) (8m per 3 days)	75 days	29/12/20	30/3/21	HK Working Day	583	585	0 days	0 days 75 days	100%	29/12/20	30/3/21							11111	
5		3 days 7 days	31/3/21 8/4/21	7/4/21 15/4/21	HK Working Day HK Working Day	584 585	586 547,587	0 days 0 days	0 days 3 days 0 days 7 days	100% 100%	31/3/21 8/4/21	7/4/21							11111	
6	Pipe Connection and Construction of Combined Inspection and Washout Chamber	60 days	16/4/21	28/6/21	HK Working Day	586		0 days	0 days 60 days	100%	16/4/21	28/6/21								
7															1111		1111	1111	1111/	
36 37 38 Exc	Type II at Pit P avation, Pipe Laying, Backfilling and Reinstatement (CH. A58+00 to A83+76 and CH.	1298 days	28/2/19	17/9/22	Calendar Day			383 days	383 days 1298 days	93%	28/2/19	NA	11111				++++	++++	the state of the s	++++

CE28 20/5	2022	CE67(27/7/2	Section II): 2023											
ginal Contract due Dividing Date: e: 18/5/2021 14/4/2022 2022	CE51: 6/10/2022	CE57(Section II): 7/2/2023	Planned Completion (WPR A-D):10/11/2023 2024 3 104 101 107 103 104 00											
pinal Contract due 14/4/2023 202 202 202 202 202 202 202		7///2023 203 0. (22) 0. (23) 0. (24) 0. (24) 0. (24) 0. (25) 0	(WPR-A-D):10/11/2023 2024 3 3 0 0 - 1 2 3 3 1 3 - 3	205 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3										
· · · · · · · · · · · · · · · · · · ·		<u> </u>												
		Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish Q4 0 N	Q1 Q2 Q3 Q4 Q4 Q1 Q3 Q4	
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89 589 30 590	CE10 - Contractor's Design of The Realignments Section (CH. A58+00 - CH.A83+76 and CH. D0+00 to D0+62) Superseded by CE51	1 day 1 day	28/2/19 3/8/20	28/2/19 3/8/20	Calendar Day Calendar Day	20 59		0 days 0 days	0 days 1 day 0 days 1 day	100% 100%	28/2/19 3/8/20	28/2/19 3/8/20		
⁹¹ 591 92 592	CE51 - Realignment of Water Main in Tsui Lam Section	706 days 90 days	5/5/20 3/8/20	17/9/22 18/11/20	HK Working Day HK Working Day	59		310 days	310 days 706 days	93%	5/5/20 3/8/20	NA 18/11/20		
³³ 593								0 days	0 days 90 days	100%				
4 594	TTA preparation, SLG meetings, obtain RA Tendering and Subletting (Batch 1 - Mau Wu Tsai Abandoned Road)	45 days 30 days	3/8/20 3/8/20	23/9/20 5/9/20	HK Working Day HK Working Day	59 59	597	0 days 0 days	0 days 45 days 0 days 30 days	100% 100%	3/8/20 3/8/20	23/9/20 5/9/20		
²⁵ 595 ³⁶ 596	Tendering and Subletting (Batch 2 - Po Lam Road South to Location A) Tendering and Subletting (Batch 3 - Location A to TKOPFWSR)(Excluding Piling Works)	30 days 30 days	3/8/20 3/8/20	5/9/20 5/9/20	HK Working Day HK Working Day	59 59	597 597,703,705,706	0 days 0 days	0 days 30 days 0 days 30 days	100% 100%	3/8/20 3/8/20	5/9/20 5/9/20		
⁷⁷ 597	Mobilization and Setup & Preliminary Works	14 days	7/9/20	22/9/20	HK Working Day		605,612,613,614	0 days	0 days 14 days		7/9/20	22/9/20		
²⁸ 598 599 599	Batch 1 - Mau Wu Tsai Abandoned Road	443 days	22/9/20	22/3/22	HK Working Day	554,555,550	840	0 days	0 days 443 days	100%	22/9/20	22/3/22		
	Issue EWN No. 241 for Tree Issue for Changing Trenchless (Pit S to Pit T) to Open Cut at Control Site (CS-108)	1 day	24/11/20	24/11/20	Calendar Day			0 days	0 days 1 day	100%	24/11/20	24/11/20		
0 600 1 601	Issue CE No. 121 - Non-explosive agent in Abandoned Road Near Mau Wu Tsai Villag Issue CE No. 70 - Landscaping Survey near Mau Wu Tsai Village	€1 day 1 day	25/6/21 22/9/20	25/6/21 22/9/20	Calendar Day Calendar Day			0 days 0 days	0 days 1 day 0 days 1 day	100% 100%	25/6/21 22/9/20	25/6/21 22/9/20		
2 602	Issue CE No. 86 - Tree Affected in Mainlaying Works near Mau Wu Tsai Village	1 day	12/10/20	12/10/20	Calendar Day		603	0 days	0 days 1 day	100%	12/10/20	12/10/20		
¹³ 603 ¹⁴ 604	Tree survey, TPRP Submission and Receiving TPRP approval Mobilization and Tree Removal	295 days 23 days	12/10/20 11/10/21	9/10/21 6/11/21	HK Working Day HK Working Day	602 603	604,632 606	O days O days	0 days 295 days 0 days 23 days	100%	12/10/20 11/10/21	9/10/21 6/11/21		
⁶ 605 ⁶ 606	CH.HA0+80 to HA3+17 OC Open Cut, CH.HA3+17 - CH.HA3+79	141 days 66 days	23/9/20 8/11/21	16/3/21 26/1/22	HK Working Day HK Working Day	597 604	609	0 days 0 days	0 days 141 days 0 days 66 days	100% 100%	23/9/20 8/11/21	16/3/21 26/1/22		
607	Open Cut, CH.HA0+28 - CH.HA0+48 with DAV Chamber (Connecting to Pit R)	49 days	7/12/21	8/2/22	HK Working Day	504,610	505,608	0 days	0 days 49 days	100%	7/12/21	8/2/22		
⁸ 608 ⁹ 609	Construction of DN900 Valve Chamber with by-pass at CH.HA0+44 Open Cut, CH.HA0+48 - CH.HA 1+20 OC with DN600 IT Chamber (Connecting to	36 days 75 days	9/2/22 17/3/21	22/3/22 19/6/21	HK Working Day HK Working Day	607 605	610	O days O days	0 days 36 days 0 days 75 days	100% 100%	9/2/22 17/3/21	22/3/22 19/6/21		
⁰ 610	CH.HA0+80) Construction of Wash Out Chamber & Reserved Tee at CH.HA0+49	36 days	21/6/21	2/8/21		609	607	0 days	0 days 36 days	100%	21/6/21	2/8/21		
1 611 2 612	Batch 2 - Po Lam Road South to Location A	401 days	23/9/20	29/1/22	HK Working Day	Strength Har	840	0 days	0 days 401 days	100%	23/9/20	29/1/22		
3 613	Trial Pit Excavations at Pit W Trial Pit Excavations at Pit X	14 days 14 days	23/9/20 23/9/20	10/10/20 10/10/20	HK Working Day HK Working Day	597 597	616 617	0 days 0 days	0 days 14 days 0 days 14 days	100% 100%	23/9/20 23/9/20	10/10/20 10/10/20		
4 614 5 615	CH.HA3+75 to HA5+55 OC (Depth < 2.5m, each stage of TTA 24-30m long) Construction of Pits (W and X)	1 day 60 days	23/9/20	23/9/20	HK Working Day	597		0 days 0 days	0 days 1 day 0 days 60 days	100%	23/9/20 12/10/20	23/9/20		
6 616	Pit W	60 days	12/10/20	21/12/20	HK Working Day	612	619	0 days	0 days 60 days	100%	12/10/20	21/12/20		
7 617 8 618	Pit X Hand shield Tunnelling and Pipe Installation (Pit W to Pit X)	60 days 327 days	12/10/20 22/12/20	21/12/20 29/1/22	HK Working Day HK Working Day	613	619	0 days 0 days	0 days 60 days 0 days 327 days	100%	12/10/20 22/12/20	21/12/20 29/1/22		
⁹ 619 ⁰ 620	Establishment at Pit W	14 days 107 days	22/12/20 11/1/21	9/1/21 25/5/21	HK Working Day HK Working Day	616,617 619	620 621	0 days 0 days	0 days 14 days 0 days 107 days	100%	22/12/20 11/1/21	9/1/21 25/5/21		
1 621	Remove Setup including Thrust Wall at Pit X	6 days	26/5/21	1/6/21	HK Working Day	620	622	0 days	0 days 6 days	100%	26/5/21	1/6/21		
² 622 ³ 623	Setup for Pipe Laying inside Jacking Pit X DN1200 MS Pipe Laying inside Jacking Pipe (4m per 3 days)	6 days 64 days	2/6/21 9/6/21	8/6/21 24/8/21	HK Working Day HK Working Day	621 622	623 624	0 days 0 days	0 days 6 days 0 days 64 days	100% 100%	2/6/21 9/6/21	8/6/21 24/8/21		
4 624 5 625	Formwork & Setup for Grouting the gap between pipe and Sleeve pipe	3 days	25/8/21	27/8/21	HK Working Day	623	625	0 days	0 days 3 days	100%	25/8/21	27/8/21		
6 626	Open Cut, connecting CH. HA5+55 to DN1200 pipe end at Pit W	2 days 35 days	28/8/21 31/8/21	30/8/21 12/10/21	HK Working Day HK Working Day	624 625	626 627	0 days 0 days	0 days 2 days 0 days 35 days	100% 100%	28/8/21 31/8/21	30/8/21 12/10/21		
627	Open Cut, connecting CH. HA6+60 to DN1200 pipe end at Pit X with DN900 H.S.V. Chamber	90 days	13/10/21	29/1/22	HK Working Day	626		0 days	0 days 90 days	100%	13/10/21	29/1/22		
8 628 9 629	Batch 3 - Location A to TKOPFWSR Open Trench Pipe Laying at Po Lam Road (West Bound)	706 days 422 days	5/5/20 20/7/20	17/9/22 1/3/22	HK Working Day None	Constanting	840	310 days 0 days	310 days 706 days 0 days 422 days	91%	5/5/20 20/7/20	NA 1/3/22		
0 630	Issue CE No. 68 - TIA for TTA at Po Lam Road	1 day	20/7/20	20/7/20	HK Working Day		631	0 days	0 days 1 day	100% 100%	20/7/20	20/7/20		
1 631 2 632		177 days 29 days	20/7/20 11/10/21	20/2/21 13/11/21	HK Working Day HK Working Day	630 603	636 633,634,635	0 days 0 days	0 days 177 days 0 days 29 days	100% 100%	20/7/20 11/10/21	20/2/21 13/11/21		
³ 633 ⁴ 634	Construction of DAV Chamber at Pit X	41 days	15/11/21	4/1/22	HK Working Day	632		0 days	0 days 41 days	100%	15/11/21	4/1/22		
5 635	Construction of DN900 Valve Chamber and By Pass Pipes	86 days 17 days	15/11/21 15/11/21	1/3/22 3/12/21	HK Working Day HK Working Day	632 632		0 days 0 days	0 days 86 days 0 days 17 days	100% 100%	15/11/21 15/11/21	1/3/22 3/12/21		
⁶ 636 ⁷ 637		85 days 189 days	22/2/21 8/6/21	7/6/21 22/1/22	HK Working Day HK Working Day	631 636	637	0 days 0 days	0 days 85 days 0 days 189 days	100% 100%	22/2/21 8/6/21	7/6/21 22/1/22		
⁸ 638 9 639	Open Trench Pipe Laying at Po Lam Road (East Bound)	431 days	8/4/21	17/9/22	HK Working Day	A CONTRACTOR	840	0 days	306 days 431 days	76%	8/4/21	NA		
0 640	Open Cut, CH.HCO+08 - CH.HCO+12	30 days 30 days	9/7/22 13/8/22	12/8/22 17/9/22	HK Working Day HK Working Day	676,644 676,639	640	0 days 306 days	306 days 30 days 306 days 30 days	0% 0%	NA NA	NA		
¹ 641 ² 642	Open Cut, CH.HCO+12 - CH.HCO+97 with SACP	104 days 62 days	16/6/21 23/11/21	19/10/21 9/2/22	HK Working Day HK Working Day	641,645	642 643	0 days 0 days	0 days 104 days 0 days 62 days	100% 100%	16/6/21 23/11/21	19/10/21 9/2/22		
3 643	Open Cut, CH.HC1+56 - CH.HC2+04	60 days	10/2/22	25/4/22	HK Working Day	642	644	0 days	306 days 60 days	90%	10/2/22	9/2/22 NA		
4 644 5 645		60 days 58 days	26/4/22 13/9/21	8/7/22 22/11/21	HK Working Day HK Working Day	643 646	639 642	0 days 0 days	306 days 60 days 0 days 58 days	0% 100%	NA 13/9/21	NA 22/11/21		
6 646 7 647	Open Cut, CH.HC3+22 - CH.HC3+70 /CH.HD0+00	131 days 651 days	8/4/21	11/9/21	HK Working Day HK Working Day		645 840	0 days 55 days	0 days 131 days 361 days 651 days	100% 93%	8/4/21 5/5/20	11/9/21		
8 648	Course (CH. HB0+00 ~ 0+94)													
	CE55 - Design Submission for Water Main Structure and Associated Pipe Support across the Natural Stream Course	30 days	5/5/20	8/6/20	HK Working Day	48	649	0 days	0 days 30 days	100%	5/5/20	8/6/20		
9 649 9 650	WSD & GEO Review and Approval TTA preparation, SLG meetings, obtain RA	60 days 60 days	9/6/20 20/8/20	19/8/20 31/10/20	HK Working Day HK Working Day	648 649	650,651	0 days 0 days	0 days 60 days 0 days 60 days	100% 100%	9/6/20 20/8/20	19/8/20 31/10/20		
¹ 651 ² 652	Tender and Subletting for Mini-piles, Construction Pile Caps and Piers	60 days	20/8/20	31/10/20	HK Working Day	649	652	0 days	0 days 60 days	100%	20/8/20	31/10/20		
3 653	Material procurement referring to Approved Design Submission CE No.85 - Affected Trees across the Natural Stream Course at Tsui Lam Location A		2/11/20 28/10/20	20/2/21 28/10/20	HK Working Day Calendar Day	651	659,670 654	O days O days	0 days 90 days 0 days 1 day	100% 100%	2/11/20 28/10/20	20/2/21 28/10/20		
4 654 5 655	Tree Survey, TPRP Submission and Approval East Portion - Foundation Works (PC-C1, PC-T1 & PC-P1)	60 days 228 days	28/10/20 9/1/21	8/1/21 18/10/21	HK Working Day	653	656	0 days	0 days 60 days	100%	28/10/20	8/1/21 18/10/21		
6 656	Mobilization and Tree Removal	24 days	9/1/21	5/2/21	HK Working Day	654	657	0 days 0 days	0 days 228 days 0 days 24 days	100%	9/1/21 9/1/21	5/2/21		
7 657 8 658	Erect Temporary Timber Platform for Piling Works Pre-drilling works (PD6, PD7 & PD8) & confirmation of rock head and depth of	7 days 25 days	6/2/21 18/2/21	17/2/21 18/3/21	HK Working Day HK Working Day	656 657	658 659	0 days 0 days	0 days 7 days 0 days 25 days	100% 100%	6/2/21 18/2/21	17/2/21 18/3/21		
9 659	mini-pile				HK Working Day		660							
660	Cleaning, Insert T50 reinforcement and Grouting	38 days 18 days	19/3/21 8/5/21	7/5/21 29/5/21	HK Working Day	658,652 659	661	0 days 0 days	0 days 38 days 0 days 18 days	100% 100%	19/3/21 8/5/21	7/5/21 29/5/21		
1 661 2 667		24 days 24 days	31/5/21 20/8/21	28/6/21 16/9/21	HK Working Day HK Working Day	660 693	663,665 664,665	0 days 0 days	0 days 24 days 0 days 24 days	100% 100%	31/5/21 20/8/21	28/6/21 16/9/21		
³ 663 ⁴ 664	Construction Pile Caps (T1) with Piers	24 days	29/6/21	27/7/21	HK Working Day	661	675	0 days	0 days 24 days	100%	29/6/21	27/7/21		
665		24 days 24 days	17/9/21 17/9/21	18/10/21 18/10/21	HK Working Day HK Working Day	662 661,662	675 666,667,675	0 days 0 days	0 days 24 days 0 days 24 days	100% 100%	17/9/21 17/9/21	18/10/21 18/10/21		
6666 6667	West Portion - Foundation Works (PC-P2, PC-P3 & PC-C2)	157 days 3 days	19/10/21 19/10/21	30/4/22 21/10/21	HK Working Day HK Working Day	665 665	668	0 days 0 days	0 days 157 days 0 days 3 days	100% 100%	19/10/21 19/10/21	30/4/22 21/10/21		
8 668 9 669	Erect Temporary Timber Platform for Piling Works	5 days	22/10/21	27/10/21	HK Working Day	667	669	0 days	0 days 5 days	100%	22/10/21	27/10/21		
	Pre-drilling works (PD1, PD2, PD3, PD4 & PD5) & confirmation of rock head and depth of mini-pile	16 days	28/10/21	15/11/21	HK Working Day	668	670	0 days	0 days 16 days	100%	28/10/21	15/11/21		
0 670 1 671	Driving Dia. 323mm steel Casting (26 nos)	58 days 27 days	16/11/21 26/1/22	25/1/22 1/3/22	HK Working Day HK Working Day	669,652 670	671 672	0 days 0 days	0 days 58 days 0 days 27 days	100% 100%	16/11/21 26/1/22	25/1/22 1/3/22		
677	Setup and Loading Test of Mini-Pile	24 days	2/3/22	29/3/22	HK Working Day	671	673	0 days	0 days 24 days	100%	2/3/22	29/3/22		
³ 673 ⁴ 674		24 days 60 days	30/3/22 3/5/22	30/4/22 14/7/22	HK Working Day HK Working Day	672	675	0 days 325 days	0 days 24 days 325 days 60 days	100%	30/3/22 NA	30/4/22 NA		
5 675 5 676	Temporary Working Platform for Pipe Installation	12 days	3/5/22 18/5/22	17/5/22 15/6/22	HK Working Day	663,664,665,673 675	676 677 639 640	0 days	325 days 12 days	0% 0%	NA	NA		
677	Concrete Hunching	24 days 12 days	16/6/22	29/6/22	HK Working Day HK Working Day	675 676	677,639,640 678	0 days 0 days	325 days 24 days 361 days 12 days	0%	NA NA	NA		
⁸ 678 9 679		6 days 6 days	30/6/22 8/7/22	7/7/22 14/7/22	HK Working Day HK Working Day	677 678	679	0 days 361 days	361 days 6 days 361 days 6 days	0% 0%	NA	NA		
680	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam		16/6/20	14/3/22	HK Working Day		840	0 days	0 days 518 days	100%	16/6/20	14/3/22		
681		30 days	16/6/20	22/7/20	HK Working Day	54	682	0 days	0 days 30 days	100%	16/6/20	22/7/20		
2 682	(Location B) WSD & GEO Review and Approval	60 days	23/7/20	30/9/20	HK Working Day	681	683,684,685,686	0 days	0 days 60 days	100%	23/7/20	30/9/20		
683	TTA preparation, SLG meetings, obtain RA	60 days	3/10/20	12/12/20	HK Working Day	682		0 days	0 days 60 days	100%	3/10/20	12/12/20		
4 684 5 685 5 686		60 days 90 days	3/10/20 3/10/20	12/12/20 20/1/21	HK Working Day HK Working Day	682 682	687,688 687	0 days 0 days	0 days 60 days 0 days 90 days	100% 100%	3/10/20 3/10/20	12/12/20 20/1/21		
		60 days	3/10/20	12/12/20 9/3/21	HK Working Day HK Working Day	682 686,685,684	687,688	0 days 0 days	0 days 60 days 0 days 38 days	100% 100%	3/10/20 21/1/21	12/12/20 9/3/21		



	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish	Q4 Q1	1 1 23	04 01	Q2 Q3	Q4 Q1	. 192
Site Clearance and Mobilization	69 days	14/12/20	10/3/21	HK Working Day	686,684	690	0 days	0 days 69 days	100%	14/12/20	10/3/21	ONDJFM	AMJJAS	ONDJF		SONDJF	MAMJ
Mini-pile Foundation Works	239 days	11/3/21	29/12/21	HK Working Day			0 days	0 days 239 days	100%	11/3/21	29/12/21			11111			
Pre-drilling works & confirmation of rock head and depth of mini-pile	40 days	14/4/21	1/6/21	HK Working Day	690	692	0 days	0 days 40 days	100%	14/4/21	1/6/21			11111			
Mobilization and Driving Dia. 273mm steel Casting (18 nos)	48 days	2/6/21	29/7/21	HK Working Day	691	693	0 days	0 days 48 days	100%	2/6/21	29/7/21			11111			
														11111			
Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 &		4/10/21	29/12/21	HK Working Day	694	697	0 days	0 days 72 days	100%	4/10/21	29/12/21			11111			
P3) Rivelaving on Mini-nile Foundation	60 days	30/12/21	14/3/22	HK Working Day			0 days	0 days 60 days	100%	30/12/21	14/3/22			11111/			
Temporary Working Platform for Pipe Installation	12 days	30/12/21	13/1/22	HK Working Day	695	698	0 days	0 days 12 days	100%	30/12/21	13/1/22			11111			
Pipe Installation / Welding / Testing / Painting (~115m)	24 days	14/1/22	14/2/22	HK Working Day	697	699	0 days	0 days 24 days	100%	14/1/22	14/2/22			11111			
						701				1/3/22	7/3/22			11111			
Remove Temporary Working Platform	6 days	8/3/22	14/3/22	HK Working Day	700	708	0 days	0 days 6 days	100%	8/3/22	14/3/22			11111			
	692 days	6/9/20	29/7/22	Calendar Day			433 days	433 days 69Z days	87%	6/9/20	NA			11111			
Batch No 3 - Temporary Works Design and Preliminary Works	30 days	6/9/20	5/10/20	Calendar Day	596	704	0 days	0 days 30 days	100%	6/9/20	5/10/20			11111			
TTA preparation, SLG meetings, obtain RA	150 days	6/10/20	4/3/21	Calendar Day	703	710 771 777 777	0 days	0 days 150 days	100%	6/10/20	4/3/21			11111			
					596	/19,/21,/22,/23		0 days 183 days		6/9/20	7/3/21			11111			
Open Cut (CH.HEO+00 - CH.HEO+27)	108 days	15/3/22	27/7/22	HK Working Day			350 days	350 days 108 days	24%	15/3/22	NA			11111			
														11111			
Open Cut (CH.HE0+27 - CH.HE2+11)(Inlet B)	359 days	14/5/21	29/7/22	HK Working Day	100	841	0 days	352 days 359 days	76%	14/5/21	NA			11111			
Issue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary	1 day	14/5/21	14/5/21	Calendar Day			0 days	0 days 1 day	100%	14/5/21	14/5/21			11111			
	1 day	20/8/21	20/8/21	HK Working Day		713,714,715,719,721,722,7	720 days	0 days 1 day	100%	20/8/21	20/8/21			11111			
TKOFWSR														11111			
											30/10/21 NA			11111			
Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	20/8/21	22/1/22	HK Working Day	712	716	0 days	0 days 128 days	100%	20/8/21	22/1/22						
Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+1	1 60 days	24/1/22	7/4/22	HK Working Day	715	717	0 days	0 days 60 days	100%	24/1/22	7/4/22						
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and	90 days	8/4/22	29/7/22	HK Working Day	716		352 days	352 days 90 days	7%	8/4/22	NA						
MBV Chamber at CH.HE1+90	100 1									24/0/24				11111			
Water Mains CH.HF0+00 - CH.HF3+10 (inlet A) Open Cut CH.HF0+00 - CH.HF0+19	150 days 67 days	21/8/21 21/8/21	22/2/22		705,712	841 720	0 days 0 days	0 days 150 days 0 days 67 days	100%	21/8/21 21/8/21	22/2/22 10/11/21						
Open Cut CH.HF0+19 - CH.HF1+30	60 days	11/11/21	22/1/22	HK Working Day	719		0 days	0 days 60 days	100%	11/11/21	22/1/22						
Construction of Combined EMF and MBV Chamber at CH.HF1+30	60 days	21/8/21	2/11/21	HK Working Day	705,712	726	0 days 0 days	0 days 60 days 0 days 31 days	100%	21/8/21							
Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	21/8/21	25/10/21	HK Working Day	705,712	725	0 days 0 days	0 days 53 days	100%	21/8/21	25/10/21						
Exposed Pipe to the side wall of TKOFWSR	18 days	5/11/21	25/11/21	HK Working Day	725		0 days	0 days 18 days	100%	5/11/21	25/11/21						
						124	0 days 0 days		100%								
MBV Chamber at CH.HF1+30																	
andscaping Works Tree Survey of Exsiting Trees	154 days 45 days	19/3/18 19/3/18	22/9/18 2/5/18		141	741.730	0 days 0 days	0 days 154 days 0 days 45 days						11111			
Tree Planting for Compensation	90 days	6/6/18	20/9/18	HK Working Day	740	827	0 days	0 days 90 days	100%	6/6/18	.20/9/18						
Tree Felling (B1, B2)	3 days	3/5/18	5/5/18	HK Working Day	728	731	0 days	0 days 3 days	100%	3/5/18	5/5/18						
Tree Felling (B3 - B8) Tree Felling (B9 - B11)	4 days 2 days	7/5/18 11/5/18	10/5/18	HK Working Day HK Working Day	730 731	732 733	0 days 0 days	0 days 4 days 0 days 2 days	100%	11/5/18	10/5/18						
Tree Felling (B12 - B17)	3 days	14/5/18	16/5/18	HK Working Day	732	734	0 days	0 days 3 days	100%	14/5/18	16/5/18						
Tree Felling (B18) Tree Felling (B19 - B22)	2 days 2 days								100%								
Tree Felling (823)	2 days	23/5/18	24/5/18	HK Working Day	735	737	0 days	0 days 2 days	100%	23/5/18	24/5/18		•				
Tree Felling (B24 - B29)	4 days	25/5/18	29/5/18	HK Working Day	736	738	0 days	0 days 4 days	100%	25/5/18	29/5/18						
Tree Felling (B30 - B32) Tree Felling (B33)	2 days 2 days	30/5/18 1/6/18	31/5/18 2/6/18	HK Working Day HK Working Day	737 738	739 740	0 days 0 days	0 days 2 days 0 days 2 days	100%	1/6/18	2/6/18						
Tree Felling (B34 - B35)	2 days	4/6/18	5/6/18	HK Working Day	739	729	0 days	0 days 2 days	100%	4/6/18	5/6/18						
And a second s			and the second second	Provide the second s	728	CE MALE PROPERTY	and the second se	the second s	The second se	and the second se	and the second se			┢┿┿┿┿┙	┝┿╋╋┿╋┙		+++
xcavation, Pipe Laying, Backfilling and Reinstatement (CH. CO+00 to C15+81)	1263 days	19/9/18	22/12/22	HK Working Day		832	0 days	226 days 1263 days	90%	19/9/18	NA			******	┍┿╋╋┿┿		HH
	1 day 1 day			HK Working Day HK Working Day	18 139	747 746		0 days 1 day 0 days 1 day	100%		22/1/19 19/9/18						
CE07 - Trial Pit Excavation along Open Cut Trench	12 days	20/9/18	5/10/18	HK Working Day	745	763	0 days	0 days 12 days	100%	20/9/18	5/10/18			•			
CE07 - HDPE Pipe, Fitting and Valves Procurement and Delivery in Batches	1 day	22/1/19	22/1/19	HK Working Day	744	763	0 days	0 days 1 day	100%	22/1/19	22/1/19						
CE17 - Construction Method for Pipeline from CH.C14+82 - CH.C15+81 being changed to Trenchless Method	T gay	5/1/20	5/1/20	In working Day	39	749	0 days	o days I day	100%	5/1/20	3/1/20						
CE17 - Tendering and Subletting	60 days	3/1/20	16/3/20	HK Working Day	748	750,751,784,785	0 days	0 days 60 days	100%	3/1/20	16/3/20						
						788,789			100%		24/4/20						I
CE57 - Realignment of Water Main by Trenchless Method in SENTX	1 day	18/1/22	18/1/22	HK Working Day	68		0 days	0 days 1 day	100%	18/1/22	18/1/22						
CE57 - Tendering and Subletting	60 days	3/1/20	16/3/20	HK Working Day		756,757,803	0 days	0 days 60 days	100%	3/1/20	16/3/20						
CE57 - WSD Instructed to Retender CE57 - Retendering, Review and Approval	1 day 88 days	3/4/20 3/4/20	3/4/20 29/6/20	Calendar Day Calendar Day	754	155	0 days 0 days	0 days 1 day 0 days 88 days	100%	3/4/20 3/4/20	3/4/20 29/6/20						
CE57 - Method Statement and Temporary Works Design Submission	30 days	17/3/20	24/4/20	HK Working Day	753	806	0 days	0 days 30 days	100%	17/3/20	24/4/20						
CE57 - Method Statement Submission for TBM CE07 - Common Trench Excavation by Open Cut					753	808			100%								
DN1200 MS Pipe, Open Cut	689 days	23/1/19	25/5/21	HK Working Day	I STATES	CONTRACTOR OF STREET	0 days	0 days 689 days	100%	23/1/19	25/5/21				-+++++		++++
CH.CT15+51 - CH.CT2+65 OC	114 days	2/1/21	25/5/21	HK Working Day	761	771,779,780	0 days	0 days 114 days	100%	2/1/21	25/5/21						
CH.CT.0+51 - CH.CT1+51 OC CH.CT.0+00 - CH.CT0+51 OC	100 days 51 days	1/9/20 3/7/20	31/12/20 31/8/20		762 766	760,767,772 761,773			100% 100%	1/9/20 3/7/20	31/12/20 31/8/20						
CH.CA0+00 - CH.CA1+00 OC	100 days	23/1/19	29/5/19	HK Working Day	746,747	764,774	0 days	0 days 100 days	100%	23/1/19	29/5/19				, , , , , , , , , , , , , , , , , , , 		
CH.CA1+00 - CH.CA2+00 OC	100 days	30/5/19	26/9/19	HK Working Day	763 764	765,775	0 days	0 days 100 days		30/5/19	26/9/19						
CH.CA2+00 - CH.CA3+00 OC CH.CA3+00 - CH.CA4+00 OC	124 days	31/1/20	2/7/20	HK Working Day	765	762,777	0 days	0 days 100 days 0 days 124 days	100%	31/1/20	2/7/20						
CH.CA4+00 - CH.CA-4+24 OC	24 days	2/1/21	29/1/21	HK Working Day	761		0 days	0 days 24 days	100%	2/1/21	29/1/21						Ш
	and the second se	the local division of	the state of the second second second		770	831			100%		19/10/21 19/10/21						ITT
CH.KT2+23 - CH.KT2+80 OC	29 days	9/7/21	11/8/21	HK Working Day	771	769,780	0 days	0 days 29 days	100%	9/7/21	11/8/21						
CH.KT1+51 - CH.KT2+23 OC	36 days	26/5/21	8/7/21	HK Working Day	760,772	770	0 days	0 days 36 days	100%	26/5/21	8/7/21						
CH.KT0+S1 - CH.KT0+S1 OC CK.KT0+00 - CH.KT0+S1 OC	26 days	1/9/20	4/3/21 30/9/20	HK Working Day HK Working Day	761,773	771 772	0 days 0 days	0 days 26 days	100%	1/9/20	30/9/20						
CH.KA0+00 - CH.KA1+00 OC	50 days	30/5/19	29/7/19	HK Working Day	763	775	0 days	0 days 50 days	100%	30/5/19	29/7/19						
									100%								41
СН.КА2+00 - СН.КА3+00 ОС СН.КА3+00 - СН.КА4+00 ОС	50 days	3/7/20	29/8/20	HK Working Day	766,776		0 days	0 days 50 days	100%	3/7/20	29/8/20						
Construction of Chambers	475 days	30/3/20	5/11/21	HK Working Day	750	831	0 days	0 days 475 days	100%	30/3/20	5/11/21						111
Combined DAV & IT Chamber for DN1200 MS Pipe at CH.CI2+47 Combiined Washout Pump Pit for DN1200 MS Pipe and NS250 HDPE Pipe at	60 days 71 days	26/5/21 12/8/21	5/8/21 5/11/21	HK Working Day HK Working Day	760,770,779		O days O days	0 days 60 days 0 days 71 days	100%	26/5/21 12/8/21	5/8/21						
CH.CT2+43							1										
				HK Working Day	776												
Inspection Pit Excavation	12 days	17/3/20	1/4/20	None	I ICENSOS		0 days	0 days 12 days	100%	17/3/20	1/4/20						1
Inspection Pit Excavation - Pit137A	14 days 14 days	17/3/20 17/3/20	1/4/20 1/4/20	HK Working Day HK Working Day		787,788 787,789	0 days 0 days	0 days 14 days	100% 100%	17/3/20	1/4/20 1/4/20						
Inspection Pit Excavation - Pit137B Construction Jacking / Receiving Pits	14 days 70 days	2/4/20	8/7/20	None	143	101,103	0 days 0 days	0 days 14 days 0 days 70 days	100%	17/3/20 2/4/20	8/7/20						17++
				HK Working Day	784,785	788,789	0 days	0 days 3 days	100%	2/4/20	6/4/20	11111		11111			
Mobilization, Setup and Perliminary Works Construction of Pit 137A	3 days 60 days	2/4/20 25/4/20	6/4/20 8/7/20	HK Working Day	784,750,787		0 days	0 days 60 days	100%	25/4/20	8/7/20	11111					
	Erect Temporary Timber Platform for Pling Works Pre-diffuge works & confirmation of rock head and depth of minipile Mobilization and Driving Dis. 273mm stel Casting (18 nos) Clearing, Inset T50 eriodrosement and Serving Setup and Loading Test of Mini-Pile Construction Pile Casg (IPCC, PC-PL, PC-	Erect Temporary Tumber Platform for Pling WorksSc off multiplieSc daysMobilization and Driving Uis. 273mm steel Casting (18 nos)84 daysSetup and Leading Test of Mini-Plie81 daysConstruction Plice Setup Criter, PCP2, PCP2, PCP2, PCP2, PCP3, PC	Minisple Foundation Works 22 days 11/2/21 Feet Tempory Timber Plation for Platy Work 40 days 12/21 Construction and Orining Gas 27 market Catality (Laws) 40 days 12/21 Construction Plic Caps (PC-C), PC-P2, PC-P3 & PC-T) and Plics (PL, P2, A2 40 days 41/221 Construction Plic Caps (PC-C), PC-P2, PC-P3 & PC-T) and Plics (PL, P2, A2 40 days 41/221 Temporary Works gratterm for Plie Istallation 12 days 41/221 Apply top costing: a distallation Plie (PL, PC-P2, PC-P3, PC-P	Mediaging considers on Wests 299 days 15//12 15//12 29//12 First Cleargy Timber Platform for Fing Wests 40 days 14//12 14//12 14//12 Cleargy Lange Media Science and Grady Media Platform for Platform	Image:	Bit Process of the set of the se	Proceeding<	Proof starting of startin	Martial constraintsPERP Part 2002PERP Part 2002PERP Part 2004PERP Part 2004PER	Model controlModel and the set of the se	Match problemMatch	MATE ALL STATEMENT MODE MODE MODE MODE MODE	MARK SCALE Model Model Model Model	Image: Propriet of a set of a	Mathem Mathm Mathm Mathm <td></td> <td></td>		

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	ontract	due	Dividi	- Det		2022 C	51:	¢	:E57	(Section	11):	PI	anne								I
: 18/5	/2021	. [0	14/4/	2022	ur.	6, [0]	10/20	22	2023 Q1	M A M		(V 3	VPR A	-D):	10/11 24	(20)	3 V		Q4	202 Q1 D J	25
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Task Na					Task Calendar	Predecessors	Successors	Free Slack	Total Slack Duration	% Complete	Actual Start	Actual Finish					4 100	102
	Construction of Pit 1378	60 days	25/4/20	8/7/20	HK Working Day	785,750,787	791	0 days	0 days 60 days	100%	25/4/20	8/7/20	JFMAMJ	JASOND	JFMAM	JJASO	NDJF	M AM
	TBM Sleeve Pipe Jacking from Pit 1378 to Pit 137A Establishment at Pit 1378	215 days	9/7/20 9/7/20	26/3/21 12/8/20	HK Working Day		163 792	0 days 0 days	0 days 215 days 0 days 30 days	100%	<mark>9/7/20</mark> 9/7/20	26/3/21 12/8/20						
	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A)	30 days 38 days	13/8/20	25/9/20	HK Working Day	791	793	0 days	0 days 38 days	100%	13/8/20	25/9/20			11111			
	(CH.CCO+10 to CH.CC.1+24) in Soil (114m; 3m/day) Remove setup at Pit 137B	6 days	26/9/20	5/10/20	HK Working Day	792	794	0 days	0 days 6 days	100%	26/9/20	5/10/20			[[[]]]			
	Setup for Pipe Laying at Pit 137B	6 days 43 days	6/10/20 13/10/20	12/10/20 2/12/20	HK Working Day HK Working Day	793 794	795 796	0 days 0 days	0 days 6 days 0 days 43 days	100% 100%	6/10/20 13/10/20	12/10/20 2/12/20						
	DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 days) NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	15 days	3/12/20	19/12/20	HK Working Day	795	797	0 days	0 days 15 days	100%	3/12/20	19/12/20			()			
	Formwork & Setup for Grouting the gap between pipe and Sleeve pipe Grouting Works (30 meter/day)	9 days 24 days	21/12/20 4/1/21	2/1/21 30/1/21	HK Working Day HK Working Day	796 797	798 799,808	0 days 0 days	0 days 9 days 0 days 24 days	100%	21/12/20 4/1/21	2/1/21 30/1/21			11117			
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	14 days	1/2/21	19/2/21	HK Working Day	798	800	0 days	0 days 14 days	100%	1/2/21 20/2/21	19/2/21 26/3/21			11111			
	Remove ELS and Extract Sheetpile at Pit 137A CE57 - Trenchless Work between Pit 137B & Pit 137C	30 days 798 days	20/2/21 17/3/20	26/3/21 24/11/22	HK Working Day HK Working Day	799	822	0 days 0 days	0 days 30 days 226 days 798 days	100% 61%	17/3/20	20/3/21 NA			[]]]]			-
	Inspection Pit Excavation Inspection Pit Excavation - Pit137C	14 days 14 days	17/3/20 17/3/20	1/4/20 1/4/20	HK Working Day HK Working Day	753	806	0 days 0 days	0 days 14 days 0 days 14 days	100%	17/3/20 17/3/20	1/4/20 1/4/20			11111			
	Construction Jacking / Receiving Pits	52 days	18/1/21	22/3/21	HK Working Day	A State Land	Contract Contract	0 days	0 days 52 days	100%	18/1/21	22/3/21			[]]]]			
-	Mobilization, Setup and Perliminary Works Construction of Pit 137C	3 days 49 days	18/1/21 21/1/21	20/1/21 22/3/21	HK Working Day HK Working Day	756,805,803	806 808	0 days 0 days	0 days 3 days 0 days 49 days	100% 100%	18/1/21 21/1/21	20/1/21 22/3/21			11111			.
	TBM Sleeve Pipe Jacking from Pit 1378 to Pit 137C Revised Establishment at Pit 1378	497 days 39 days	23/3/21 23/3/21	24/11/22 12/5/21	HK Working Day HK Working Day	806,757,798	809	226 days O days	226 days 497 days 0 days 39 days	56% 100%	23/3/21	12/5/21			[[]]]			
	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (from Pit 137B - Pit 137C)	164 days	13/5/21	26/11/21	HK Working Day	808	810	0 days	0 days 164 days	100%	13/5/21	26/11/21			[]]]]			111
-	(CH.CB0+00 to CH.CB.2+46) in Soil (246m; 1.5m/day) Annulus Grouting and Remove setup at Pit 137B	41 days	27/11/21	17/1/22	HK Working Day	809	811	0 days	0 days 41 days	100%	27/11/21	17/1/22			11111			111
	Setup for Pipe Laying at Pit 1378	28 days 93 days	18/1/22 23/2/22	22/2/22 18/6/22	HK Working Day HK Working Day	810 811	812,813 814	0 days 0 days	0 days 28 days 222 days 93 days	100% 46%	18/1/22 23/2/22	22/2/22 NA			[]]]]			
	DN1200 MS Pipe Laying inside jacking pipe (246m) (8m per 3 days) NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	23/2/22	26/2/22	HK Working Day	811	814	0 days	0 days 4 days	100%	23/2/22	26/2/22						.
	Formwork & Setup for Grouting the gap between pipe and Sleeve pipe Grouting Works (20 meter/day)	3 days 13 days	15/6/22 18/6/22	17/6/22 4/7/22	HK Working Day HK Working Day	812,813 814	815 816,818	0 days 0 days	226 days 3 days 226 days 13 days	0% 0%	NA	NA						.
	Pipe Connection and Construction of Combined Inspection Pit and Washout	66 days	5/7/22	20/9/22	HK Working Day	815	817	0 days	226 days 66 days	0%	NA	NA			11111			.
	Chamber (Type III) at Pit 137C Thrust Block & backfilling inside Pit 137C	24 days	21/9/22	20/10/22	HK Working Day	816	819	0 days	226 days 24 days	0%	NA	NA			11111			
	Pipe Connection, Thrust Block & backfilling inside Pit 137B	30 days	5/7/22 21/10/22	8/8/22 24/11/22	HK Working Day	815 817	820	0 days 226 days	286 days 30 days 226 days 30 days	0% 0%	NA NA	NA						
	Remove ELS and Extract Sheetpile at Pit 137C Remove ELS and Extract Sheetpile at Pit 137B	30 days 30 days	9/8/22	13/9/22	HK Working Day HK Working Day	817 818		286 days	286 days 30 days	0%	NA	NA						
	NS250 HDPE Pipe Static Pressure, Pipeling Cleaning, CCTV Inspection, Sterilization, Water Sampling and Handover to WSD	24 days	25/11/22	22/12/22	HK Working Day			226 days	226 days 24 days	0%	NA	NA						
	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	7 days	25/11/22	2/12/22	HK Working Day		823	0 days	226 days 7 days	0%	NA	NA						
	NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection at Portion H (Area 137) NS250 HDPE Pipe - Sterilization and Water Sampling Portion H (Area 137)	7 days 7 days	3/12/22 12/12/22	10/12/22 19/12/22	HK Working Day HK Working Day	822 823	824 825	0 days 0 days	226 days 7 days 226 days 7 days	0% 0%	NA NA	NA						
	NS250 HDPE Pipe - Portion H (Area 137)	3 days	20/12/22	22/12/22	HK Working Day	824		226 days	226 days 3 days	0%	NA	NA						
E	tablishment Establishment of Landscape Works	365 days 365 days	21/9/18 21/9/18	20/9/19 20/9/19	Calendar Day Calendar Day	729	a filling on a body	0 days 0 days	0 days 365 days 0 days 365 days	100% 100%	21/9/18 21/9/18	20/9/19 20/9/19						
M	S Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization	652 days		18/1/24	HK Working Day		part of the	252 days	252 days 652 days	13%	6/11/21	NA						
	d Water Sampling Static Pressure Test for DN1200 MS Pipe	711 days	6/11/21	17/10/23	Calendar Day			0 days	0 days 711 days	22%	6/11/21	NA			[]]]]			111
	Section II	308 days	6/11/21	11/1/23	None		861	0 days	199 days 308 days	50%	6/11/21	NA			(/			111
	CE07 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	14 days	6/11/21	22/11/21	HK Working Day	768,778	844	0 days	0 days 14 days	100%	6/11/21	22/11/21			[]]]]			111
	CE17 & CE57 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at	14 days	23/12/22	11/1/23	HK Working Day	743	845	0 days	226 days 14 days	0%	NA	NA			(
-	CH.CA4+24 to Wan Po Road (CH. A0+00) Section I	411 days	22/3/22	17/10/23	None		860	0 days	0 days 411 days	14%	22/3/22	NA		4111	11111			
1	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH. A0+00) to Pit D (CH.A 22+70)	14 days	29/9/23	17/10/23	HK Working Day	348,162,170,179,33	5847	0 days	0 days 14 days	0%	NA	NA						111
-	CE67 - DN1200 MS Pipe - Static Pressure Test From Pit D at SKR Carpark to DN900	7 days	20/7/23	27/7/23	HK Working Day	410	848	0 days	68 days 7 days	0%	NA	NA			11111			111
-	Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) CE36 & CE34 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at	14 days	22/3/22	7/4/22	HK Working Day	271,293	849	0 days	0 days 14 days	100%	22/3/22	7/4/22						
	TKO Landfill Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at TKO Landfill Stage		22/0/22	11 11 22											/			111
	I Area B (CH. FC 13+44) CE59 & 60 - DN1200 MS Pipe - Static Pressure Test From TKO Landfill Stage I Area B	14 days	8/9/22	24/9/22	HK Working Day	230,211	850	0 days	314 days 14 days	0%	NA	NA						
	(CH.FC13+44) to Pit K at Po Yap Road Roundabout CE28 & CE50 - DN1200 MS Pipe - Static Pressure Test From Pit K at Po Yap Road	14 days	4/5/22	20/5/22	HK Working Day	506,555	851	0 days	420 days 14 days	0%	NA	NA			(
	Roundabout to Pit P at Po Shun Road Verge Area										*							
	CE51 - DN1200 MS Pipe - Static Pressure Test From Pit P at Po Shun Road - Pit R at Control Site CS-108 (Abandoned Road)	14 days	27/8/22	13/9/22	HK Working Day	481	852	0 days	324 days 14 days	0%	NA	NA						
	CE51 - DN1200 MS Pipe - Static Pressure Test From Pit R at Mau Wu Tsai Abandoned	14 days	19/9/22	6/10/22	HK Working Day	680,647,638,629,61	1853	0 days	306 days 14 days	0%	NA	NA						111
		10 days	30/7/22	10/8/22	HK Working Day	710,718	854	0 days	352 days 10 days	0%	NA	NA			[]]]]			
	Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH. HE1+90)							-										111
5	Pipeline Cleaning and CCTV Inspection for DN1200 MS Pipe	580 days	23/11/21	8/11/23	HK Working Day		856	0 days	249 days 580 days	13%	23/11/21	NA			[]]]]]			
	Section II CE07 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve	354 days 18 days	23/11/21 23/11/21	4/2/23 13/12/21	HK Working Day HK Working Day	831		475 days O days	475 days 354 days 0 days 18 days	50% 100%	23/11/21 23/11/21	NA 13/12/21						
-	Chamber at CH.CA4+24 to to CH.CT.2+65 CE17 & CE57 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900			4/2/23	HK Working Day	832		475 days	475 days 18 days	0%	NA	NA						
	Valve Chamber at CH.CA4+24 to Wan Po Road (CH. A0+00)		12/1/23			032												
1	Section I DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit D at SKR Carpark to	470 days 18 days	8/4/22 18/10/23	8/11/23 8/11/23	HK Working Day HK Working Day	834		249 days 249 days	249 days 470 days 249 days 18 days	4% 0%	8/4/22 NA	NA						
	DN900 Valve Chamber at TKO Landfill Stage Area A (CH.FB1+66)																	
	Carpark to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	18 days	28/7/23	17/8/23	HK Working Day	835		317 days	317 days 18 days	0%	NA	NA						
	CE36 & CE34 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at		8/4/22	3/5/22	HK Working Day	836		701 days	701 days 18 days	33%	8/4/22	NA						
	TKO Landfill Stage I Area B (CH. FC 13+26)			-														
	CE59 & CE60 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From TKO Landfill Stage I Area B (CH.FC13+44) to Pit K at Po Yap Road Roundabout	18 days	26/9/22	18/10/22	HK Working Day	837		563 days	563 days 18 days	0%	NA	NA						
	CE28 & CE50 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit K at	18 days	21/5/22	11/6/22	HK Working Day	838		669 days	669 days 18 days	0%	NA	NA						
	Po Yap Road Roundabout to Pit P at Po Shun Road Verge Area CE51 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit P at Po Shun	18 days	14/9/22	6/10/22	HK Working Day	839		573 days	573 days 18 days	0%	NA	NA						
-	Road - Pit R at Control Site CS-108 (Abandoned Road) CE51 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit R at Mau Wu	18 days	7/10/22	27/10/22	HK Working Day	840		555 days	555 days 18 days	0%	NA	NA						
	Tsai Abandoned Road to DN800 EMF & BV Chamber at TKO																	
	CE51 - DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber		11/8/22	31/8/22	HK Working Day	841		601 days	601 days 18 days	0%	NA	NA						
	Sterilization, Water Sampling and Final Connection to TKO Fresh Water Service Reservoir		9/11/23	18/1/24	Calendar Day			296 days	296 days 71 days	0%	NA	NO			()			
8	& Handover to WSD Region																	
	DN800 & DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m) Final Connection of DN800 (Inlet B)	60 days 7 days	9/11/23 8/1/24	7/1/24 15/1/24	Calendar Day HK Working Day	842 856	857,858 859	0 days 0 days	296 days 60 days 252 days 7 days	0% 0%	NA NA	NA						
	Final Connection of DN800 (Inlet A)	7 days	8/1/24	15/1/24	HK Working Day	856	859	0 days	252 days 7 days	0%	NA	NA						
EO	DN800 & DN1200 MS Pipe Handover to WSD Region - Portion I & Portion H (Area 137) IT for Section I	3 days 20 days	16/1/24 18/10/23	18/1/24 10/11/23	HK Working Day HK Working Day		9	252 days O days	252 days 3 days 0 days 20 days	0%	NA	NA			()			
L EO	Tor Section I	20 days	12/1/23	7/2/23	HK Working Day		9	226 days	226 days 20 days	0%	NA	NA						
z Wa	ater Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan				HK Working Day	1		0 days	0 days 143 days	100%	16/11/18	15/5/19			(++++)			
0	Area 137 (Portion J) CEO2 - Water Supply to TKO Desalination Plant at Fill Bank of TKO Area 137	1 day	16/11/18	16/11/18	HK Working Day	16	864	0 days	0 days 1 day	100%	16/11/18	16/11/18						
	Procurement of Major Material	48 days	16/11/18	14/1/19	HK Working Day	863	865	0 days	0 days 48 days	100% 100%	16/11/18	14/1/19			الللل			
	Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No. 13/WSD/16/SK13 to SK15 and W20203/4A	89 days	15/1/19	7/5/19	HK Working Day	864	866	0 days	0 days 89 days		15/1/19	7/5/19						
		4 days	8/5/19	11/5/19	HK Working Day	865	867	0 days	0 days 4 days	100%	8/5/19	11/5/19						
' 9	Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64) Water Sampling	1 day	14/5/19	14/5/19	HK Working Day	866	868	0 days	0 days 1 day	100%	14/5/19	14/5/19						

	CE28: 20/ <u>5/20</u> 22	CE67(27/7/	Section II): 2023	
ginal Contract due e: 18/5/2021	Dividing Date: CE51	: CE57(Section II): /2022 7/2/2023	Planned Completion (WPR A-D):10/11/2023 2024	
	14/4/2022 6/10 2022 4 Q1 N D J F M M J J A S	2023 NDJMAMJ	3 A S O T D J F N A M J J A S O N D	2025 Q1 J F

D Task Name	Duration Start Fini		Predecessors Sucresso	s Free Slack			al Start Actual Fini	4h 2018 2018 201 Q4 Q1 Q2 Q3 Q4 Q1 Q1 N Q L FM A M L L A S Q N Q L	9 2020 Q2 Q3 Q4 Q1 Q2 Q3 F M A M J J A S O N D J F M A M J J A
868 Backfill at T23+64 after completion of Water Sampling Test 869 Handover Portion J to WSD Region	1 day 15/5/19 15/ 1 day 15/5/19 15/	5/19 HK Working Day 5/19 HK Working Day	867 869 868	0 days 0 days	0 days 1 day 0 days 1 day	100% 15/2 100% 15/2	5/19 5/19	15/5/19 15/5/19	
rogramme As of 14/4/ Taik Milestone 🗢	Project Semmary	Inscive Milestone 0 Inscive Summary I	Minual Task	Manual Summary Rollup Manual Summary	Suri-only Finish-only	C External Task	s irm: Ø	Deadline Critical Split Critical Progress	Manual Progress
	a constante la constante de la				•	Page 10			







Overview of Mainlaying in Tseung Kwan O





Figure B1. Overview of Mainlaying in TKO





Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78





Figure B3. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64



Member of the Aurecon Group



Figure B4. Location Plan for Portion J - CH.A 6+70



Member of the Aurecon Group



Figure B5. Location Plan for Portion J - CH.A 6+70











Figure B7. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)





Figure B8. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)





Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



Figure B8b. Location Plan for Portion J – Pit N-O-P





Figure B9a. Location Plan for Mau Wu Tsai 1



Figure B9b. Location Plan for Mau Wu Tsai 2 & 3





Figure B9c. Abandoned Mau Wu Tsai Road



Figure B10. Monitoring Location – Po Lam South Road





Figure B11. Monitoring Location – Area A02



Figure B12. Location Plan for Jacking Pit D





Figure B13. Location Plan for CH.HE0+80-1+60



Figure B14. Location Plan for Pit K





Figure B15. Location Plan for Wan Po Road 4



Figure B16. Location Plan for Wan Po Road 4





Figure B17. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)

CH.CZ

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Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report







Figure B18. Location Plan for Portion H– Pit 137B





Figure B19. Location Plan for Portion H– Pit 137A



Figure B20. Location Plan for Portion H– Pit 137C



Appendix C

Summary of Implementation Status of Environmental Mitigation



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Air Quality	I				1			
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		V		N/A	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		~		N/A	
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		~		Implemented	
S4.8.1	Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.	Land site/ During Construction	Contractor(s)		•		Implemented	
\$4.8.1	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards and should be dampened or covered before transport.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		~		N/A	
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	~	•		Implemented	



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lement: Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.8.1	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Land site/ During construction	Contractor(s)		-		Implemented	Air Pollution Control (Construction Dust)
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Land site/ During construction	Contractor(s)		•		Implemented	
S4.8.1	All exposed areas will be kept wet always to minimize dust emission.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.8.1	Ultra-low-Sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% Sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		•	•	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		-		Implemented	-
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		•		N/A	Guidance Note on a Best
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		~		Implemented	-



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0	status	Guidelines
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ (ET & IEC)		~		Implemented	-



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation		ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	Č	0	status	Guidelines
Noise						1		
S5.7	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		~		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.	Noise control/ During construction	Contractor(s)		1		N/A	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		~		Implemented	
\$5.7	Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum.	Noise control/ During construction	Contractor(s)		•		Implemented	
\$5.7	Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Noise control/ During construction	Contractor(s)		•		Implemented	
S5.7	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor(s)		~		N/A	
\$5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		1		Implemented	
\$5.7	Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Noise control/ During construction	Contractor(s)		~		N/A	
\$5.7	The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Noise control/During construction	Contractor(s)		~		N/A	
S5.7	Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)		•		Implemented	



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0	status	Guidelines
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (i.e. the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	Noise control / During construction	Contractor(s)		•		Implemented	-
S5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators. Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m ⁻² may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	~	•		N/A	-
S 5.9	Saw cutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	~	~		Implemented	-
\$5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (e.g. summer holiday, Easter holiday or Christmas holiday, etc.) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	•		Implemented	-
\$5.10	A noise monitoring programme shall be implemented for the construction phase.	During construction phase	ET		1		Implemented	-
S5.10	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	All facilities/ During construction	Contractor(s)/ ET & IEC		~		Implemented	-



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Reference		main concerns to address	Agent	D	C	0	status	Guidelines
Water Qual				-	1 .	1		
S6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land site & drainage/ During construction	Contractor(s)		*		Implemented after observation	ProPECC PN 1/94 TM Standard under the WPCO
S6.9	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)		-		Implemented	ProPECC PN 1/94
\$6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-
\$6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-
\$6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	-	Implementation Stage		-		Implementation status	Relevant Legislation & Guidelines
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)	D	€		Implemented	-		
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		•	•	Implemented	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters		
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		•	•	N/A			
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		•	•	Implemented after observation	-		
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		•		Implemented	-		



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Imp	lement: Stage	ation	Implementation	Relevant Legislation & Guidelines
Reference		main concerns to address	Agent	D	С	0	Status	
Waste Man	8			_				
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	-
\$8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		~	•	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A waste management plan (WMP) as stated in the " <i>ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites</i> " for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	All area/ During construction	Contractor(s)		~		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.	All area/ During construction	Contractor(s)		•		N/A.	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35



EIA		Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation Status	Relevant Legislation & Guidelines
Reference		main concerns to address	Agent	D	C	0		
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented	Waste Disposal Ordinance (Cap 354)
\$8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		√		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
\$8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		~		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and wastepaper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		•		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
\$8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		~		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		•		N/A	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
\$8.5	Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		-		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		~		Implemented	-
\$8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		~		Implemented	-
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		-		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)



EIA	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation	Imp	lementa Stage	ation	Implementation Status	Relevant Legislation & Guidelines
Reference			Agent	D	C	0		
\$8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		~		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/landfills, and to control fly-tipping.	Contract mobilisation/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ ET & IEC		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		•		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		•		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)
\$8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R)



EIA	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation	Implementation Stage			Implementation	Relevant Legislation &
Reference			Agent	D	С	0	Status	Guidelines
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented after observation	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging,
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		1	✓	Implemented	Handling and Storage of Chemical Wastes
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	~	Implemented	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		1	1	Implemented	
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		1	1	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		-	-	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	~	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	~	Implemented	
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0	Status	Guidelines
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		√	~	Implemented	-
\$8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		-	•	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		~		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.	All facilities/ During construction	ET/ IEC		•		Implemented	-



EIA	Recommended Environmental Protection Measures/	ded Environmental Protection Measures/ Mitigation Measures Objectives of the recommended measures & main concerns to address Implementation Agent Implementation D	ation	Implementation	Relevant Legislation &			
Reference	Mitigation Measures		Agent	D	С	0	Status	Guidelines
Ecology								
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		•		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached, and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ Environmental Team (ET)		•		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		~		Implemented	-
\$9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		~		N/A	-


EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Im	Implement Stage		Implementation Status	Relevant Legislation & Guidelines
Reference		main concerns to address		D	С	0	Status	Guidelines
Landscap								
S11.10	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
\$11.10	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - roadside planting; - aesthetic treatment of all structures; - vertical greening; - screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible to reduce their visual impact and blend them into the surrounding landscape.(MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	Implemented after observation	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10	Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	DEVB TC(W) No. 10/2013

Note: D – Design stage C – Construction O – Operation



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imj	plement Stage		Implementation Status	Relevant Legislation & Guidelines
	Ŭ	main concerns to address	8	D	С	0		
Landfill Ga						1	1	1
S12.7	During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	~	•	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 metre.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	~	•	Implemented	
\$12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	~	•	Implemented	
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	-	~	•	Implemented	
S12.7	All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	-	~	•	Implemented	
S12.7	Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented	

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report



	of methane. carbon dioxide and oxygen.						
S12.7	Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	√	√	√	Implemented
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	~	•	Implemented
\$12.7	Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors' responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/ During operation	Contractor(s)	•	•	•	Implemented
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	-	V	N/A
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	-	•	N/A
\$12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	•	•	Implemented



	and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.					
\$12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	Contractor(s)	•	•	~	Implemented





Impact Monitoring Schedule of the Reporting Month

Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Tentative Environmental Monitoring Schedule (April 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6 Impact Noise Monitoring
7	8	9	10	11	12 Impact Noise Monitoring	13
14	15	16	17	18 Impact Noise Monitoring	19	20
21	22	23	24 Impact Noise Monitoring	25	26	27
28 The schedule may be changed due to	29	30 Impact Noise Monitoring				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc.)





Noise Monitoring Equipment Calibration Certificate



Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	RION
Type No.:	NC-75
Serial No.:	35124527

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

\checkmark	Within
	Outside

the allowable tolerance.

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: Calibration Technician

Certified by:

Date of issue: 27 October 2023

Mr. Ng Yan Wa Xaboratory Manager



Page 1 of 2

Certificate No.: APJ23-090-CC002

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com F-mail:inguiry@aa-lab.com

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

24.4 °C
1013 hPa
65.4 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-090-CC002

Page 2 of 2



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	SVAN 971 (Serial No.:C132261)
Microphone:	SV 7052E (Serial No.: 79778)
Preamplifier:	SVANTEK SV-18 (Serial No.:97276)
	Submitted by:
<i>a</i> ,	

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 4kHz)□ Outside

the allowable tolerance.

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: Calibration Technician

Certified by: Mr. Ng Yan Wa

Date of issue: 27 October 2023

Certificate No.: APJ23-091-CC006

Laboratory Manager

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司 (A+A)*L

1. **Calibration Precaution:**

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point. -

2. **Calibration Conditions:**

Air Temperature:	22.6 °C
Air Pressure:	1016 hPa
Relative Humidity:	65.3 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

Calibration Results 4.

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Uni	t-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class	
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB	
25-124.9	dBA	SPL	Fast	94	1000	94.0	±0.4	

Linearity

Sett	ing of U	nit-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
				94		94.0	Ref	
25-124.9	25-124.9 dBA	SPL	Fast	104	1000	104.0	±0.3	
				114		114.0	±0.3	

Time Weighting

Sett	ing of Un	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	B Freq. Weighting Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB	
25 124 0	dBA	SPL	Fast	94	1000	94.0	Ref
25-124.9 dBA		SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ23-091-CC006

Page 2 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Set	ting of	Unit-under-t	test (UUT)	Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.4	±2.0
				63	94.3	±1.5	
		IB SPL	Fast	94	125	94.2	±1.5
25-124.9	dD				250	94.1	±1.4
23-124.9	uБ				500	94.1	±1.4
					1000	94.0	Ref
					2000	93.8	±1.6
					4000	93.3	±1.6

A-weighting

Set	ting of I	Unit-under-t	est (UUT)	Арр	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	ange, dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB	
					31.5	55.1	-39.4 ±2.0	
			Fast		63	68.1	-26.2 ±1.5	
		SPL		94	125	78.1	-16.1 ±1.5	
25-124.9	dBA				250	85.5	-8.6 ±1.4	
25-124.9	uDA				500	90.8	-3.2 ±1.4	
			~		1000	94.0	Ref	
					2000	95.0	+1.2 ±1.6	
					4000	94.3	$+1.0 \pm 1.6$	

C-weighting

Set	tting of	Unit-under-1	test (UUT)	Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
					31.5	91.4	-3.0 ±2.0
					63	93.4	-0.8 ±1.5
	dBC SPL		Fast		125	94.0	-0.2 ±1.5
25-124.9		וחס		94	250	94.1	-0.0 ±1.4
25-124.9		SEL		94	500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.5	-0.8 ±1.6

Certificate No.: APJ23-091-CC006



Page 3 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	\pm 0.05
	250 Hz	± 0.05
	500 Hz	\pm 0.05
	1000 Hz	\pm 0.05
	2000 Hz	\pm 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Page 4 of 4

Certificate No.: APJ23-091-CC006





Event / Action Plan for Noise Exceedance



Event and Action Plan for Construction Noise Monitoring

Event	Action										
	ET I				ER		Co	ntractor			
Action Level	3.	Carry out investigation to identify the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor	1. 2. 3.	Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures	1. 2. 3.	Confirm receipt of Notification of Exceedance in writing Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented	1.	If required, to the IEC and ER			
mit Level		 Notify IEC, ER, EPD and Contractor Identify the source(s) of impact by reviewing all the relevant monitoring data and the corresponding construction activities. Exceedances should also be confirmed by immediate verification in the field as far as practical. Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implement. inform IEC, ER and EPD the cause & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results If exceedance stops, cease additional monitoring. 	g s ed. दे	 Discuss amongst ER, ET, and Contractor on the potential remedial actions Review Contractor's remedial actions to assure their effectiveness and advise the ER &ET accordingly Supervise the implementation of the remedial measures 	2. 3. 4. 5.	Confirm receipt of notification of exceedance in writing Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted	2. 3. 4.	Take immediate action to avoid furthe exceedance Identify practicable measures to minimize the noise impact. Submit proposals for remedial actions to ER within three working days of notification Implement the agreed proposals Resubmit proposal if problem still not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated			



Appendix G

Noise Monitoring Data



Table G1	Summary of Noise Monitoring Result
----------	------------------------------------

					Leq-5min	, dB(A)			L _{eq-30min} ,	L _{10-30mins} ,	L90-30mins	Limit	
Date	Time	Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)	dB(A)	dB(A)	Level, dB(A)*	Noise Meter
6/4/2024	11:15 - 11:45	Cloudy	66.8	65.5	65.3	63.5	69.5	70.9	67.7	71.0	63.8	70.0	SVANTEK 971
12/4/2024	11:04 - 11:34	Sunny	65.1	63.7	64.4	66	65.3	64.2	64.9	68.5	64.7	65.0	SVANTEK 971
18/4/2024	11:12 - 11:42	Fine	66.5	63.5	63.2	64.3	65.8	64.3	64.8	68.0	60.9	65.0	SVANTEK 971
24/4/2024	11:19 - 11:49	Fine	64.4	62.5	66.2	62.4	62.4	64.9	64.1	67.3	60.4	65.0	SVANTEK 971
30/4/2024	11:08 - 11:38	Sunny	66.3	63.5	65.6	64.1	64.2	64.4	64.8	68.7	62.3	65.0	SVANTEK 971

*The Limit Level for education institutions is 65 dB(A) during examination period.





Waste Flow Table



Appendix H - Waste Flow Table

	A	ctual Quantitie	es of Inert C&D	Materials Gei	nerated Month	lly	Actual	Quantities of N	ion-C&D Wast	es Generated I	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Project	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard packaging	Plastics	Chemical Waste	Other, e.g., general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000m ³)	(in '000m ³)	(in'000kg)	(in'000kg)	(in'000kg)	(in'000kg)	(in '000m ³)
Jan 2024	0.280	0.000	0.264		0.016	0.029		0.061			0.003
Feb 2024	0.135	0.000	0.135		0.000	0.010		0.042			0.002
Mar 2024	0.313	0.000	0.020		0.293	0.000		0.023			0.001
Apr 2024	0.119	0.000	0.030		0.089	0.028		0.031			0.002
May 2024											
Jun 2024											
Sub-total	0.847	0.000	0.449	0.000	0.398	0.067	0.000	0.157	0.000	0.000	0.008
Jul 2024											
Aug 2024											
Sep 2024											
Oct 2024											
Nov 2024											
Dec 2024											
Total	0.847	0.000	0.449	0.000	0.398	0.067	0.000	0.157	0.000	0.000	0.008

Notes:

1) Total quantity Generated only refers to the actual Quantitates of inert C&D materials generated monthly excluding those that will be recycled (Hard rock & large broken concrete, reused in contract and reused in another contract). Imported fill will not be included in total quantity generated as those C&D materials are not generated from this project.

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

3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.





Landfill Gas Monitoring Equipment Calibration Certificate

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report



According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.





Landfill Gas Monitoring Data

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report



According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.



Appendix K

Complaint Log and Regulatory Compliance Proforma





Table K-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics					
Reporting renou	Frequency	Cumulative	Complaint Nature			
1 – 30 April 2024	0	5	N/A			

Table K-2 Statistical Summary of Environmental Summons

Deporting Devied	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 – 30 April 2024	0	0	N/A		

Table K-3 Statistical Summary of Environmental Prosecution

Donorting Doriod	Environmental Prosecution Statistics					
Reporting Period	Frequency	Cumulative	ve Details			
1 – 30 April 2024	0	0	N/A			





Site Inspection Proforma





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspecti	on Date: 2524/413 Inspected by: ET: Alex Lang		W.S.	Cha	
Inspecti	on Time: 9:30 Am Contractor: <u>Calvin Chilc</u>	IEC: _		<u> </u>	
Weath	er				
Condit	ionSunnyFineOvercastDrizzleRain	Sto		Hazy	
Tempe	rature C Humidity High Moderate		w		
Wind	Calm Light Breeze Strong				
L					<u> </u>
		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site		\square		
	entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction				
	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty				
1.02	construction works for dust suppression?		L		
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?	\Box			
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust				
	emission during vehicle movement?				
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty			·	
_	materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving				· · · · · · · · · · · · · · · · · · ·
	the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of			Ē	
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	Is exposed earth properly treated within six months after the last construction activity on		\square		
1.12	site?				<u>.</u>
1.12	Does the operation of plants on site free form dark smoke emission?				
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3		r1		
	sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas				
	accessible by the public?		\square		
1.17	Is open burning prohibited?			$\overline{\square}$	





Contract No	.: 13/WSD/16 N	Aainlaying in	Tseung Kwan O

		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)		i		
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive		 1		
	noise?				
2,03	Are plants throttled down or turned off when not in use?				·
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				·
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to		_		
	nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted		[]		
	hours?				
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?				bir sura
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
2.06	remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?				·····
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?	¦≌_			
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?		\square		
		لينا			





		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
	during construction?				
3.14	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	Is oil leakage or spillage prevented?		\checkmark		
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?		\angle		
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to	[
	avoid them entering the streams?				
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within			,	
	bunds of capacity equal to 110% of the storage capacity of the largest tank?				·
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from	[]			
	the sensitive watercourse and stormwater drains?				
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				
	force?				<u></u>
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?				
3.23	Is concrete washing water properly collected and treated prior to discharge?		/		
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and				
	disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste				
	collector?				
4.04	Are trip tickets for chemical waste disposal available for inspection?				·
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly				
	labelled?	L		L	
4.09	Are incompatible chemical wastes stored in different areas?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		/		
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area,				
	whichever is the greatest, provide?				<u> </u>
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?				





		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?		\square		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\square		
4.17	Are C&D wastes sorted on site?				
4.18	Are C&D waste disposed of properly?				
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		\square		
4.22	Is a dumping license obtained to deliver public fill to public filling areas?				
5.00 5.01	Landscape and Visual Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\square		·
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				·
5.05	Are damages to trees outside site boundary due construction works avoided?				
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.08	Are surgery works carried out for damaged trees?	\Box			
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?				
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00 7.01	Overall Is the EM&A properly implemented in general?		\square		





Remar	k / Observatio	on(s) / Rec	ommendation a	ind Non-c	ompliance	(s) of W	eekly Site Ins	pection:						
Rer	ninder-							after	· dai	ly u	Jorks.			
\mathcal{O}	Contractor	uas .	reminded	to	cover	the	stockoik	#	÷	ل الح	met	÷.	(2000) -	
	(Po lan	n Road	7)				-1 1	-	-	۴		•		
	Signatures:												<u> </u>	
	ET		Contractor	s	U.	/SD's		चा	C's					
	Representati	ve	Representa			epresent	ative		epresei	ntativ	e			
	ABan		W	un		51								
Ī	Name: Ner	Lenny)	(Name: Co	ilvin Ch	u () (N	Name:	Y. 5, Che.) (1	Jame:)			





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date:	12/4/2023	Inspected by: ET: Alex Lewing WSD: La Tak Chan Contractor: Cahan Chi, IEC:
Inspection Time:	for 10:00 an	
Weather		
Condition	Sunny Fine	Overcast Drizzle Rain Storm Hazy
Temperature	24 C	Humidity High Moderate Low
Wind	Calm Light	Breeze Strong

		N/A	Yes	No	Remarks
0.01	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				· · · · · · · · · · · · · · · · · · ·
1.01	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?				
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	\square			
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	\square			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?		$\[\]$		
1.11	Is exposed earth properly treated within six months after the last construction activity on site?		\angle		
1,12	Does the operation of plants on site free form dark smoke emission?				-
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				
1.17	Is open burning prohibited?				





Contract No.: 13/WS	5D/16 Mainlay	ying in Tseun	ig Kwan O
---------------------	---------------	---------------	-----------

	Contract 100. 101 (SD/10 Mannaying in 18	N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?		\square		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?		\leq		·
2.03	Are plants throttled down or turned off when not in use?		\square		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\square		
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to				<u> </u>
	nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?		<u> </u>		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?				
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				4-11-1
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?				
3,10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				
L		L			





	Contract No.:	13/WSD/16	Mainlaving in	Tseung Kwan O
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		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\square		
3.14	Is runoff from wheel-washing facilities avoided?			$\overline{\Box}$	
3.15	Is oil leakage or spillage prevented?				
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to				
	avoid them entering the streams?		\sim		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within	r			· · · · · · · · · · · · · · · · · · ·
	bunds of capacity equal to 110% of the storage capacity of the largest tank?		\angle		·
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from				
	the sensitive watercourse and stormwater drains?		\angle		-
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				· · ·
	force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?				
3.23	Is concrete washing water properly collected and treated prior to discharge?				
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at		r	,	
	public filling facilities and landfills?				
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and				
	disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste				
	collector?				
4.04	Are trip tickets for chemical waste disposal available for inspection?	\square			
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?		\square		
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly				
	labelled?				
4.09	Are incompatible chemical wastes stored in different areas?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of			· · · ·	· · · ···
	the largest container or of 20% by volume of the chemical waste stored in that area,				
	whichever is the greatest, provide?		\sim		
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?		\leq		





		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and				
4.10	office paper provided to encourage waste segregation?				
4.17	Are C&D wastes sorted on site?				.
4.18	Are C&D waste disposed of properly?		\square		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		\square		
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\square		
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?				
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				· · · · · · · · · · · · · · · · · · ·
5.08	Are surgery works carried out for damaged trees?				
6.00	Ecology			 1	
6.01	Is site runoff properly treated to prevent any silly runoff?				· · · · · · · · · · · · · · · · · · ·
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				<u> </u>
7.00 7.01	Overall Is the EM&A properly implemented in general?				





Rema	Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:													
Rei	ninder	-												
\bigcirc	Tee	fen	Contrac	tor was	reminded	t 6	maintain	+ho	tree	fencing, and	((1)	171		
ľ			,	,		10	nentient	ine	nre	tericing, care	(>heK	KoK	Road)	
														:
⊢	Signat	ures:							<u></u> .					
	ET			Contracto	r's	W	/SD's			IEC's				
	Repres	entativ	e	Represent			epresentati	ve		Representative	;			
	A	X		(\mathbf{A})	m		An							
	(Name	Alex	(eury)	(Name:	alvin Chik	2 (1	Name:)_	Top C.	hw	(Name:)	· -	-	




Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspecti	on Date: 2024/4/19 Inspected by: ET: <u>Mex lenn</u> Contractor: God Calun Chile	WSD: IEC:			
r	on Time: 15-30 pm	1EC			
Weath Condit Tempe Wind	ion Sunny Fine Overcast Drizzle Rain	Sto		Hazy	
		N/A	Yes	NI-	
0.00	General	N/A	res	No	Remarks
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		\square		<u> </u>
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	\square			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?	Ź			
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust				•
1.09	emission during vehicle movement?				
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	\square			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?		/		
1.11	Is exposed earth properly treated within six months after the last construction activity on site?				••••
1.12	Does the operation of plants on site free form dark smoke emission?		7		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	Ń			
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				
1.17	Is open burning prohibited?	\square	\square		





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Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?		\downarrow		
2.03	Are plants throttled down or turned off when not in use?		\square		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				<u> </u>
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				+
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
	the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\square			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?				
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?		\square		
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				······
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		\square		
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during		\square		
	rainy seasons?		L		·····
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				1
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				
L		L			

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		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric	 			
	during construction?		\leq		
3.14	Is runoff from wheel-washing facilities avoided?				
3.15	Is oil leakage or spillage prevented?				
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
	system?		\angle		
3.17	Are the oil interceptors/ grease traps properly maintained?		/		
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to				
	avoid them entering the streams?		\sim		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within	·			
1	bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from		· · · · · · · · · · · · · · · · · · ·		
	the sensitive watercourse and stormwater drains?		/		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				
	force?		/		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?				
3.23	Is concrete washing water properly collected and treated prior to discharge?		/		<u></u>
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at			_	
	public filling facilities and landfills?				
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and				
	disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste				
	collector?				·
4.04	Are trip tickets for chemical waste disposal available for inspection?				
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly				
	labelled?				<u> </u>
4.09	Are incompatible chemical wastes stored in different areas?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of	<u> </u>			
	the largest container or of 20% by volume of the chemical waste stored in that area,				
	whichever is the greatest, provide?				
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?		\leq		



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		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?				
4.17	Are C&D wastes sorted on site?				
4.18	Are C&D waste disposed of properly?		/		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\square		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				
4.22	Is a dumping license obtained to deliver public fill to public filling areas?				
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				·
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\square		
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?				
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.08	Are surgery works carried out for damaged trees?				
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?				<u>.</u>
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				·····
6.04	Are construction works restricted to works area which are clearly defined?				
7.00 7.01	Overall Is the EM&A properly implemented in general?		\square		





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Ins	spection:
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Obsenci	fish		Þ
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Signatures:					
ET Representative	Contractor's Representative	WSD's Representative		IEC's Representative	
Ala	ann				
(Name: Alex Long) (Name: Calvin Uhik)	(Name:)	(Name:)



	WEEKLY ENVIRONMENTAL INSPECTION	CHECI	KLIST		
	tion Date: 26/4/2024 Inspected by: ET Colo Ip tion Time: 09=30 all Contractor Callin Chuk	WSD IEC	W.S. Alex	Chan	-
Weat			-		
Cond		Ste	orm	Hazy	
1			w		
Temp					
Wind	Calm Light Breeze Strong			100	
		N/A	Yes	No	Remarks
		IN/A	105	140	Kenniks
0.00 0.01	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		\checkmark		
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		V		
1 02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?		V		
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?		\square		1011
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?		$\overline{\mathbf{V}}$		
1.05	Is wheel-washing provided to all vehicles leaving the site?		V		
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?				
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?		V		
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?		\checkmark		
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	V			
1.11	Is exposed earth properly treated within six months after the last construction activity on site?				2
1.12	Does the operation of plants on site free form dark smoke emission?				
1 13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\square		
1 14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				1
1 15	Are de-bagging, batching and mixing processes of bagged cemant carried out in sheltered areas?				
.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				1 2
.17	Is open burning prohibited?				
A Section Contraction			the second s		And the second design of the s



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	Contract No.: 13/WSD/16 Mainlaying in Tsu	eung Ky	van O	No	Remarks
T	Connection	N/A	Yes	110	
.00	Construction Noise (Airborne)		\bigtriangledown	\Box	
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?			-	a salahan sa
2.03	Are plants throttled down or turned off when not in use?		V		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from		\Box	\square	
	NSRs?			-	
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	V			
2.06	Are silencers, mufflers and enclosures provided to plants?		V		
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		V		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along		1		
	the site boundary?		205		
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		~		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	V			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	V			and and and and
212	Are all construction noise permit(s) applied for percussive piling work?	V			
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		V		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		V		
3.00	Water Quality				
01	Is effluent discharge license obtained for wastewater discharge from site?		V		
3.02	Is effluent discharged according to the effluent discharge license?		V		
3.03	Is wastewater discharge from site properly treated prior to discharge?		V		nette sporter solo (1995)
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?		V		
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				Alexandra de
	remove sand/silt particles from runoff?		V		
3.06	Is surface runoff diverted to sedimentation facilities?		V		
.07	Is the drainage system properly maintained?		\checkmark		
.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?				A CONTRACTOR OF A CONTRACTOR
.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				and a second
	soil erosion?	tion of	~		- Contraction -
5.10	Are temporary access roads protected by crushed gravel?	V			and a second sec
11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,			-	id delivera
	backfilled in short sections after excavation?	V			genud and



	Contract No.: 13/WSD/16 Mainlaying in Ts	eung K	wan O	No	Remarks
	Contract No. 15/ WSD/10 Manuel D	N/A	Yes	No	
12	Are exposed slope surface properly protected?		V		
.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
.14	Is runoff from wheel-washing facilities avoided?		V		1
.15	Is oil leakage or spillage prevented?		V		
.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?		V		
5.17	Are the oil interceptors/ grease traps properly maintained?		V		
3 18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		V		
9.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		V		
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?				111
9.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		V		<u></u>
.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?				
.23	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		<u></u>
1.00 1.01	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				1
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?		\checkmark		-
4.04	Are trip tickets for chemical waste disposal available for inspection?		V		
4.05	Is chemical waste reused and recycled on site as far as practicable?		V		
4.06	Are all containers for chemical waste properly labelled?		\checkmark		All and a second
4.07	Is drip tray provided for chemical storage?		V		
4 08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\checkmark		
4.09	Are incompatible chemical wastes stored in different areas?		\checkmark		2
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		\checkmark		
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?	\checkmark			
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		\checkmark		2

Page 3 of 5



	Contract No.: 13/WSD/16 Mainlaying in Te	eung K	wan O		And a la
		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?		V		
4.14	Is general refuse disposed of properly and regularly?		~		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		V		e
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\checkmark		
4,17	Are C&D wastes sorted on site?		V		
4.18	Are C&D waste disposed of properly?		V		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?		V		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		V		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		\checkmark		-
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		V		
5.00 5.01	Landscape and Visual Are Is site hoarding provided?	V			the p
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?	\checkmark		and the	
5.03	Is construction light oriented away from the sensitive receivers?		~		
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5 05	Are damages to trees outside site boundary due construction works avoided?	V			and the
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	V			
.07	Are the retained and transplanted tree(s) properly protected and in good conditions?	V		-	
.08	Are surgery works carried out for damaged trees?	\checkmark			
.00	Ecology				
	Is site runoff properly treated to prevent any silly runoff?		V		
.02	Are silt trap installed and well-maintained?		\checkmark		
.03	Are stockpiles properly covered to avoid generating silty runoff?		\checkmark		a so mile a
.04	Are construction works restricted to works area which are clearly defined?		\checkmark		USUBOR -
.00	Overall Is the EM&A properly implemented in general?		/		
	to the binary property implemented in generality			THE R.	and a start of the



ark / Observation(s) / Reco	mmendation and Non-complia	ance(s) of Weekly Site Inspect	tion:	
No major Saiduring	environmental site inspect	definiera) has obser	ved.
Signatures:				
ET Remandative	Contractor's	WSD's	IEC's	
Representative	Representative	Representative	Representative	
Colo	(aller)	SW	AV.	



Appendix M

Proactive Environmental Protection Proforma



Proactive Environmental Protection for the Next Reporting Month

Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1– 29 February 2024	 Road surface reinstatement including surface drain and related utilities, Chamber construction, Installation of accessories such as cat ladder and handrail 	 Construction dust Noise generation; Construction waste Impact of water quality Ecology 	 Dust suppression by regular wetting and water spraying Reduction of noise from equipment and machinery on-site Sorting and storage of general refuse and construction waste Chemical shall be stored properly with drip tray. Treatment of water with water treatment facilities before discharge. Rainwater pumped from trench should be discharged via waster water treatment facilities. Retained tree shall be carefully protected and tree protect zone should be established.





Impact Monitoring Schedule of Next Reporting Month

Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Tentative Environmental Monitoring Schedule (May 2024)

Sun	Mon	Tue	Wed	Thu		Sat
			1	2	3	4
5	6	7	8	9	10	11
					Impact Noise Monitoring	
					Wolldoring	
12	13	14	15	16	17	18
				Impact Noise Monitoring		
				Monitoring		
19	20	21	22	23	24	25
		Impact Noise				
		Impact Noise Monitoring				
26	27	28	29	30	31	
	Impact Noise					
	Impact Noise Monitoring					
The schedule may be changed due to unforesee						

The schedule may be changed due to unforeseen circumstances (adverse weather, etc.)





Academic Calendar (s)



啓 思 中 學 CREATIVE SECONDARY SCHOOL

2023/24 Creative Secondary School Calendar

					_	_		ve secondary senioor calendar
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Particulars/Remarks
August	13	14	15	16	17	18	19	14-16/8 F1 Bridging Programme. 17/8 F1, F5 Orientation. 18/8 Whole School Assembly
	20	21A	22B	23C	24D	25E	26	
	27	28F	29G	30A	31B		-	
September	1					1C	2	
September	0	40	66	05	70			
	3	4D	5E	6F	7G	8A	9	
	10	11B	12C	13D	14E	15F	16	15/9 Swimming Gala
	17	18G	19A	20B	21C	22D	23	19/9 MY1 & F1 3-way conference
	24	25E	26F	27G	28A	29		29/9 The 1st PD Day. 30/9 The day following the Chinese Mid-Autumn Festival
October	1	2	3B	4C	5D	6E	7	2/10 The day following National Day
	8	9F	10G	11A	12B	13C	14	9/10 F6 3-way conference
	15	16	17	18	19	20	21	16-22/10 Term Break
	22	23	24D	25E	26F	27G	28	23/10 Chung Yeung Festival
	29	30A	31B	ZJL	201	210	20	
	29	JUA	SID	10				
November				1C	2D	3E	4	1/11 Hong Kong University Road Show. 2/11 F5 3-way conference
	5	6F	7G	8A	9B	10C	11	11/11 Open Day
	12	<u>13</u>	14D	15E	16F	17G	18	13/11 The Monday following Open Day
	19	20A	21B	22	23C	24	25	22/11 The 2nd PD Day. 23/11 F3 3-way conference. 24/11 Sports Day Day 1
	26	27D	28E	29F	30G			30/11-20/12 F5 DSE assessment weeks
December						1A	2	30/11-20/12 F5 DSE assessment weeks
Decontrol	2	40	50	60	75			
	3	4B	5C	6D	7E	8F	9	
	10	11	12A	13B	14C	15	16	11/12 the day after election 12/12 F2 3-way conference. 15/12 Sports Day Day 2
	17	18D	19E	20F	21	<u>22</u>	<u>23</u>	21/12 Creative Christmas Festival (half day). 22/12-6/1 Christmas Holiday
	<u>24</u>	25	26	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	25/12 Christmas Day. 26/12 The first weekday after Christmas
	<u>31</u>							
January		1	2	3	4	5	6	
,	7	8G	9A	10B	11C	12D	13	8-19/1 F6 Mock exams
	14	15E	16F	17G	18A	19B	20	
	21	22C	23D	24E	25F	26G	27	22/1 F4 3-way conference
	28	29A	30B	31C				
February					1D	2E	3	
	4	5F	6	<u>7</u>	<u>8</u>	<u>9</u>	10	6/2 Creative Chinese Festival (half day). 10/2 Lunar New Year
	11	12	13	14	<u>15</u>	<u>16</u>	<u>17</u>	7-17/2 Chinese New Year Holiday
	18	19G	20A	21B	22C	23D	24	
	25	26E	27F	28G	29A			
March	İ					1B	2	2/3 The Hispanic Festival
								6/3 MYI/F1 3-way conference. 8/3 F6 HKDSE last school day
	3	4C	5D	6E	7F	8G	9	
	10	11A	12B	13C	14D	15E	16	
	17	18	19	20	21	22	23	18-22/3 Creative Week
	24	25F	26G	27A	<u>28</u>	29	30	27/3 F6 IBDP last school day. 29/3 Good Friday, 30/3 The day following good Friday
	31		200					31/3 Easter Sunday. 28/3-6/4 Easter Holiday
April			2	2		E	C	
April	_	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	1/4 Easter Monday. 4/4 Ching Ming Festival
	7	8B	9C	10D	11E	12F	13	11-16/4 HKDSE exams (core subjects)
	14	15G	16A	17B	18C	19D	20	17/4-6/5 HKDSE exams (elective subjects). 24/4-16/5 IBDP exams
	21	22E	23F	24G	25A	26B	27	23/4-24/4 F3 TSA Chinese and English Speaking Test
	28	29C	30D					
May				1	2E	3F	4	1/5 Labour Day
	5	6G	7A	8B	9C	10D	11	6-17/5 F5 IBDP Exams
	12	13E	14F		16G	10D	18	15/5 Buddha's Birthday
		-		15				-
	19	20B	21C		23E	24F	25	20-30/5 F5 HKDSE exam. 24-30/5 F4 HKDSE Exams
	26	27G	28A	29B	30C	31		31/5 The 3rd PD Day
June							1	
	2	3D	4E	5F	6G	7A	8	
	9	10	11B	12C	13D	14E	15	10/6 Dragon Boat Festival
	16	17F	18G	19A	20B	21C	22	19/6-20/6 F3 TSA Chinese and English Written Test
		-		26F	20B	28		
	23	24D	25E	201	210	20	29	28/6 Last school day (half day)
	30							
July		1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	1/7 Hong Kong Special Administrative Region Establishment Day
	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	2/7 -10/8 Summer Holiday
	<u>14</u>	<u>15</u>	<u>16</u>	17	<u>18</u>	<u>19</u>	<u>20</u>	
	21	22	23	24	25	26	27	
	28	29	30	<u>31</u>				
					1	2	2	
August	1			-	1	2	<u>3</u>	
August						u u	10	
August	4	5	<u>6</u>	<u>7</u>	8	<u>9</u>		
August	4 11 18	<u>5</u> 12 19	<u>6</u> 13 20	<u>/</u> 14 21	15 22	<u>5</u> 16 23	17 24	