





Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

16th Quarterly EM&A Report For May to July 2022

November 2022 (Rev. 2.0)

	Prepared by:	Reviewed and Certified by:
Name	Howard Chan	Jacky Leung
Position	Environmental Team	Environmental Team Leader
Signature	Howard	A
Date:	10 November 2022	10 November 2022



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

Our reference:

Date:

HKWSD201/50/108355

11 November 2022

Attention: Mr Hivan Cheng

BY POST

Dear Sirs

Quotation 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 16th Quarterly EM&A Report for May to July 2022

We refer to emails of 2 and 10 November 2022 attaching 16th Quarterly EM&A Report for May to July 2022 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/A.

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

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/KSYL/lsmt







Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
1.0	1 st Submission	02/11/2022
2.0	Revised according to IEC's comments	10/11/2022



TABLE OF CONTENTS

EXE	CUTIVE SUMMARY	1
1.	Basic Project Information	2
2.	Noise Monitoring	6
	Waste Management	
	Summary of Exceedance, Complants, Notification of Summons and Prosecutions	
5.	EM&A Site Inspection	11
6.	Landfill Gas Monitoring	13
7.	Conclusion and Recommendations	15

Appendix A	Master Programme
Appendix B	Overview of Mainlaying in Tseung Kwan O
Appendix C	Summary of Implementation Status of Environmental Mitigation (EMIS)
Appendix D	Summary of Exceedance
Appendix E	Complaint Log
Appendix F	Event/ Action Plan for Noise and Landfill Gas
Appendix G	Waste Flow Table



EXECUTIVE SUMMARY

- 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. The construction works of Mainlaying in Tseung Kwan O were commenced on 30 August 2018. This is the 16th quarterly Environmental Monitoring and Audit (EM&A) summary Report prepared by ASCL. This report presents the EM&A works carried out during the period of 1 May to 31 July 2022.
- A4. All the environmental monitoring works were conducted in accordance with the EM&A Manual. The monitoring results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handing procedures were also checked.
- A5. A summary of the monitoring activities undertaken in this reporting period is listed below:

Monitoring Activities	Frequency
Daytime Noise monitoring	13 times
Landfill Gas Monitoring	2004 times
Environmental Site Inspection	13 times

- A6. All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action and Limit Level exceedance for construction noise monitoring was recorded in the reporting quarter.
- A7. No Action and Limit Level exceedance of landfill gas monitoring was recorded in the reporting quarter.
- A8. No environmental complaint, notification of summons and prosecution was received in the reporting quarter. The Complaint Log is presented in **Appendix E**.
- A9. There were no changes to be reported that may affect the on-going EM&A programme.



1. BASIC PROJECT INFORMATION

1.1. Background

- 1.1.1. The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million litres per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative fresh water 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.
- 1.1.2. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Variation of Environmental Permit (No. EP-503/2015/A) to Water Supplies Department (WSD) for the Project on 26 January 2018.
- 1.1.3. The scope of the Contract may be considered in brief, to consist of the laying of about 10km long 1200mm 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**

- 1.2.1. This is the 16th Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 July 2022.
- 1.2.2. 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	Independent Environmental Checker	James Choi	2618-2831

Table 1.1Contract Details of Key Personnel

1.3. Summary of Construction Works

1.3.1. Details of the major construction works undertaken in this reporting quarter are shown in **Table 1.2**. The construction programme is presented in **Appendix A**.

 Table 1.2
 Summary of Construction Works Undertaken in the Reporting Quarter

Location	Construction Works undertaken in the Reporting Quarter		
TKO Area 137			
Pit A	Mainlaying from Pit A to Wan Po Road and pipe installation works inside sleeve pipe		
Pit B	Construction of combined chamber and pipe installation works inside sleeve pipe		
	2		

2



Pit (Construction of washout chamber and excavation from Pit C to 900 S.V.				
	chamber and pipe installation works inside sleeve pipe				
	Wan Po Road				
1					
	Excavation and ELS works for jacking pit 1 and Mainlaying from Pit 1 to Pit 2				
	Setup for MTBM pipe jacking and Mainlaying from Pit 1 to Pit 2				
VVORKTRONT 3	Pipe trench excavation and pipe laying and SRT and pavement carriageway				
Workfront 4	Pipe trench excavation, pipe laying and pipe installation inside sleeve pipe				
	MTBM pipe jacking and Pipe trench excavation and pipe laying				
Pit A	Setup Platform for hand-shield				
Pit A1 – Pit B	Pipe trench excavation, pipe laying and reinstatement works				
Pit B – Pit C	Trench excavation and pipe laying				
Shek Kok Road					
Pit D – Pit C1	MTBM pipe jacking and Trench excavation and pipe laying				
Wing wall hand- shield	Construction of wing wall and Setup for Hand-shield pipe jacking				
Lohas Park Road					
Tower 1	Wing wall construction				
Pet Garden's	Trench excavation and pipe laying and reinstatement works				
	Construction of flood protection wall and re-construction of u-channel Trench excavation and pipe laying works concrete surround				
Pung Loi Road					
	Set up for MTBM pipe jacking and MTBM pipe jacking				
	Pipe laying inside sleeve pipe				
Pit J1A	Pipe laying inside sleeve pipe				
Velodrome					
Pit K	Grouting for sleeve pipe and construction of concrete thrust block				
Pit L – Pit M	Pressure testing of water pipeline				
Pit M	Set up for Pressure testing of water pipeline and pipe laying				
Pit N	Pressure testing of water pipeline				
Pit O – Pit P	Site setup works for trenchless works and Grouting				
Ling Hong Road					
Control site 108	Ladder installation for DN900 S.V. chamber				
Po Lam Road					
PLR South	Trench excavation and pipe laying works				
	Backfilling and Inspection chamber installation				
	Trench excavation and pipe laying				
B4	Trench excavation and pipe laying				
C2	Building for pier 1 & 2				
D2	Trench excavation and pipe laying works				
Tsui Lam Road					
	Predrilling for mini pile and steel cage installation and grouting for mini pile				
TKO Primary Service Reservoir					
Trench excavation and pipe laying					



1.4. **Summary of Construction Works**

1.4.1. 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 Valid Environmental Licence, Notification,
Permit and Documentations

Reference	Validity Period	Remark			
Variation of Environmental P	Variation of Environmental Permit				
EP no.: EP -503/2015/A	Throughout the Contract	-			
Notification of Construction V Dust) Regulation (Form NA)	Works under the Air Pollution Cor	ntrol (Construction			
Ref no.: 423775	Throughout the Contract	-			
Chemical Waste Producer Re	gistration				
WPN: 5213-839-P3287-01 Throughout the Contract -					
Billing Account for Disposal o	of Construction Waste				
A/C no.: 7029491 Throughout the Contract		-			
Water Discharge License					
WT00032336-2018	Until 31 Dec 2023	-			
Construction Noise Permit					
GW-RE0326-22 Until 1 Oct 2022		-			
GW-RE0329-22 Until 1 Oct 2022		-			
GW-RE0330-22	Until 1 Oct 2022	-			
GW-RE0353-22	Until 1 Oct 2022	-			

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

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

Parameters	Status	
	Noise	
Baseline Monitoring The baseline noise monitoring result has been reported i Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4		
Impact Monitoring	On-going	
Waste Management		
Mitigation Measures in Waste Management Plan On-going		
Landfill Gas Monitoring		
Monitoring On-going		
Environmental Audit		
Site Inspection On-going		

1.4.3. 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.



1.4.4. 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

2.1.1. To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby sensitive receivers (NSRs) during construction phase. Referring to the EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

2.2. Monitoring Parameter

2.2.1. Impact noise monitoring was conducted weekly in the reporting quarter between 0700-1900 on normal weekdays. 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.

Time	Frequency	Duration	Parameters
Daytime 0700 – 1900	Once per week	Continuously in Leq 5min/Leq 30min (average of 6 consecutive Leq 5min)	Leq, L10 & L90

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

2.2.2. The monitoring methodology and QA/QC procedure could be referring to Section 2.4 of the Monthly EM&A Report.

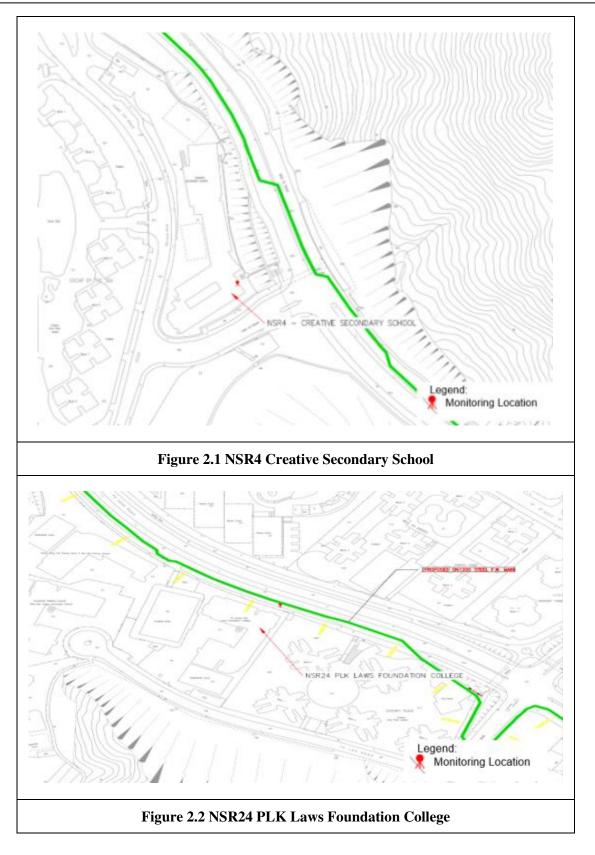
2.3. **Monitoring Location**

2.3.1. 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** and shown in **Figure 2.1 – 2.3**.

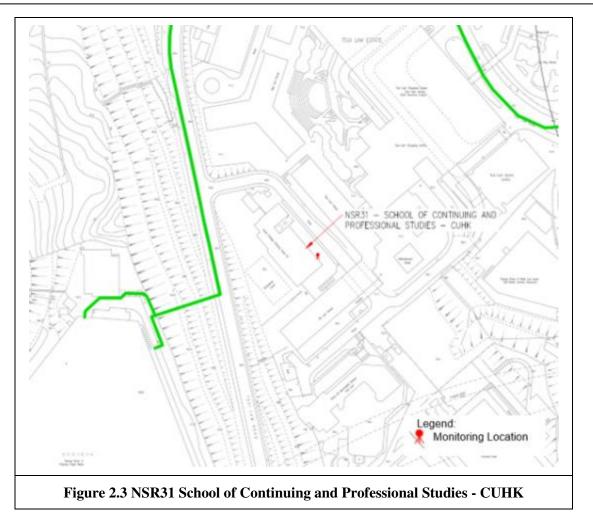
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR4	Creative Secondary School	Roof Floor	1m from Façade
NSR24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-Field
NSR31	School of Continuing and Professional Studies - CUHK	Roof Floor	1m from Façade

Table 2.2 Designated Nosie Monitoring Station









2.4. Action and Limit Level

2.4.1. 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 2.3**.

Table 2.3 Action and Limit Level for Construction Noise Monitori	ing
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Time Period	Action Level	Limit Level
	When one documented	• 70 dB(A) for school
weekdays	complaint is received from	and
	any one of the noise	• 65 dB(A) during
	sensitive receivers	examination period
Notes:		
(a) Limits specified in the GW-TM a	and IND-TM for construction and ope	eration noise, respectively.



2.5. Monitoring Results and Observation

- 2.5.1. 13 times of noise impact monitoring were conducted as schedule in the reporting quarter at NSR4 Creative Secondary School since projected-related construction activities were undertaken within a radius of 300m from the monitoring location.
- 2.5.2. No construction works were conducted within 300m radius of NSR4 and NSR31. Thus, no construction noise monitoring was carried out at NSR4 and NSR31 in the reporting quarter.
- 2.5.3. The Graphical presentation of the construction noise monitoring results was shown in **Figure 2.4**.

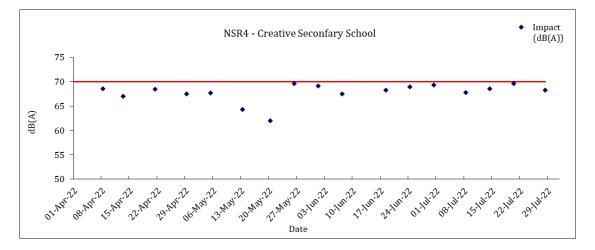


Figure 2.4 Graphical presentation of the construction noise monitoring at NSR4

- 2.5.4. No Action and Limit level exceedance of construction noise monitoring was recorded in the reporting quarter. Summary of exceedance could be referring to **Appendix D**.
- 2.5.5. If non-compliance occurred, actions as stated in **Appendix F** will be undertaken.
- 2.5.6. The major noise sources identified at the designated noise monitoring station were vehicle movement near the Creative Secondary School.



3. WASTE MANAGEMENT

3.1. Mitigation measure on waste management have been implemented in accordance with the requirements of the EM&A Manual. Suitable C&D materials were reused on-site, while the remaining C&D materials and non-inert wastes were disposed at the public filling reception facilities and the landfills respectively. The quantities disposed in the reporting quarter could be referring to **Appendix G**.

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

- 4.1. All construction noise monitoring was conducted as schedule in the reporting quarter. No Action and Limit Level exceedance was recorded in the reporting quarter.
- 4.2. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones. No Action and Limit Level exceedance was recorded in the reporting quarter. Summary of Exceedance could be referring to **Appendix D**.
- 4.3. No environmental complaint, notification of summons and prosecution was received in the reporting quarter.



5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Three joint site inspections with IEC were carried out on 27 May, 27 June, 26 July 2022.
- 5.2. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 5.1 5.3**.

Date	Environmental Observations	Follow-up Status
6 May 2022	 Stockpile of dusty materials should be covered properly with impervious materials/ sheeting (Ma Wo Shui Abundant Road). Shelter should be provided for cement mixing works (Pit O). 	 Stockpile of dusty materials was removed off-site. Cement mixing works were carried out inside the sheltered area.
12 May 2022	 Drip tray should be provided for chemical storage. (Pit X & Location A). Slop surface should be covered during rainy season (Pit X). To clean the public road regularly and avoid muddy runoff flow to public area. (Po Lam South Road) 	 Drip tray was provided for chemical storage. Slop surface was covered properly. Public road was cleaned regularly.
20 May 2022	 Wastewater/ Seepage water should be treated properly to comply with the discharge standard of Water Discharge licence before discharge. (Wan Po Road Work Fount 1) Drip tray should be provided for chemical storage. (Wan Po Road Work Fount 1) 	 Wastewater was treated properly to comply with the Discharge licence standard before discharge. Drip tray was provided for chemical storage.
27 May 2022	No major observation was recorded o	n the respective day.

Table 5.1 Site Observatio	ns (May 2022)
Table J.I Sile Observatio	H_{2} (May L_{2}

Table 5.2 Site Observations (June 2022)

Date	Environmental Observations	Follow-up Status								
1 June 2022	No major observation was recorded on	the respective day.								
9 June 2022	 Drip tray should be provided for chemical storage (HK Velodrome Park Pit O). Empty chemical container should be stored at a designated area (HK Velodrome Park Pit O). 	 Drip tray was provided for chemical storage. Empty chemical containers were stored in the chemical waste container. 								
17 June 2022	1. Drip tray should be provided for chemical storage (HK Velodrome Park Pit O).	1. Drip tray was provided for chemical storage.								



Date	Environmental Observations Follow-up Status									
24 June 2022	2022 No major observation was recorded on the respective day.									
27 June 2022	No major observation was recorded on	the respective day.								

Table 5.3 Site Observations (July 2022)

Date	Environmental Observations	Follow-up Status
7 July 2022	1. Drip tray should be provided for chemical storage at WPR C1.	1. Chemical was removed.
14 July 2022	No major observation was recorded on	the respective day.
22 July 2022	 Gully should be covered/ sealed properly during exaction. (Shek Kok Road roundabout) Drip tray should be provided for chemical storage (Creative School) Muddy surface runoff should be collected and treated properly, and the treated wastewater should comply with the Water Discharge Licence standard (Creative School) 	 Gully was covered properly. Chemical was removed. Exposed slope surface near the drainage was hard paved and muddy surface runoff was collected and treated properly before discharge.
26 July 2022	1. Muddy water should be collected properly and avoid discharge to nearby gully at Shek Kok Road roundabout	 Muddy water was collected properly and avoid discharge to nearby gully.

5.3. 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. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**.



6. LANDFILL GAS MONITORING

6.1. Monitoring Requirements

6.1.1. 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 freshwater 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.

6.2. Monitoring Location

- 6.2.1. Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the Consultation Zone.
- 6.2.2. 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.
- 6.2.3. 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.

6.3. Monitoring Parameter

- 6.3.1. 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.
- 6.3.2. The following parameters were monitored:
 - Oxygen;
 - Carbon Dioxide;
 - Barometric Pressure
 - Methane;
- 6.3.3. The monitoring methodology and equipment could be referring to Section 4.5 of the Monthly Report.



6.4. Action and Limit Level

6.4.1. Action and Limit Level are presented in **Table 6.1**.

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

6.5. Monitoring Result

6.5.1. In the reporting quarter, landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations for 2004 times. No action and limit level exceedance was recorded in the reporting quarter. The landfill gas monitoring results could be referring to Appendix J of the Monthly EM&A Report.



7. CONCLUSION AND RECOMMENDATIONS

- 7.1. This is the 16th quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by ASCL. This report presents the EM&A works carried out during the period of 1 May to 31 July 2022 in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 7.2. 13 times of noise impact monitoring were conducted in the reporting quarter at NSR4 Creative Secondary School since projected-related construction activities were undertaken within a radius of 300m from the monitoring location.
- 7.3. No Action and Limit Level exceedance of construction noise was recorded during the reporting quarter.
- 7.4. No landfill gas monitoring exceedance was recorded in the reporting quarter.
- 7.5. Weekly environmental site inspection was conducted during the reporting quarter. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the Project was therefore considered satisfactory.
- 7.6. According to the environmental site inspections performed in the reporting quarter, the Contractor is reminded to pay attention on proper storage of chemical and maintaining site tidiness. The Contractor is also reminded to consider the treatment of wastewater from the construction site area.
- 7.7. No environmental complaint, notification of summons and prosecution was received in the reporting quarter.
- 7.8. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 7.9. Statistics on complaints and regulatory compliance are summarized in **Appendix E**.



Appendix A

Master Programme

	ites							% Complete			2018	2	2019 2019 200 Q1 Q2 Q3 Q4 Q	20	2021	2022	1 2 1 2	2023	2024 2024		2025	15
Con	ates		And the state of t								Q4 Q1 Q2	Q3 Q4	Q1 Q2 Q3 Q4 Q	1 Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q	2 Q3 Q4	Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q	+ Q1 C	Q2
		2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA												
Star	tract Date	0 days	Tue 7/11/17	Tue 7/11/17	Calendar Day		67,59,60FS+27 days,61,62,58	100%	Tue 7/11/17	Tue 7/11/17	7/11											
	ting Date	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day		4,5FS+730 days,6FS+1279	100%	Thu 16/11/17	Thu 16/11/17	◆ 16/11							'				
Acc	ess Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	days 90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	◆ 16/11						-				-	
Acc	ess Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19			16/1	11								_
Cor	npletion Date (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21					18/5						_	_
	for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Da		8	100%	Tue 18/5/21	Tue 18/5/21					18/5							-
			Wed 19/5/21				9FF	0%	NA	NA						19/1					-	_
	for CE No. 01	246 days																				
Revi	ised Completion Date	0 days		Wed 19/1/22			11FS+365 days	0%	NA	NA						• 10/1				4.51		
Plan	ned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA										 5/9 		
Def	ect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA								19/1				
ainla	aying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA												
lssu	ed Compensation Events (General)	1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day			100%	Tue 12/6/18	Tue 18/1/22												
Pre	iminaries	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day			100%	Tue 7/11/17	Sat 30/4/22	-											
S	ubmission and Permit Application	322 days	Tue 7/11/17	Mon 24/9/18	Calendar Day		- Inacian and a second	100%	Tue 7/11/17	Mon 24/9/18	P	~										_
s	ubcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20	-											-
S	ite Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18	-											_
	rocurement of Major Material	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100%	Sat 7/4/18	Sat 30/4/22	-											_
	nlaying in Tseung Kwan O Area 137 (Portion H)	1260 days		Wed 15/3/23		v		92%	Tue 11/12/18	NA												_
										Mon 29/7/19			♦ 29/7									_
	arly Possession of Portion H	0 days					101									_						_
	isue Date of CE No. 07 -Water Supply to No. TKO Desalination Plant at Portion H NS250 HDPE Pipe)	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104		Tue 22/1/19				▶ 22/1			_						
M	Naterial Procurement and Delivery in Batches	330 days	Tue 11/12/18	Tue 5/11/19	Calendar Day	103		100%	Tue 11/12/18	Tue 5/11/19												
C	pen Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19	Sat 14/8/21	HK Working Da	Y	761	100%	Sat 10/8/19	Sat 14/8/21			-									
т	renchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	1162 days	Tue 22/1/19	Thu 22/12/22	HK Working Da	Y	784,762	83%	Tue 22/1/19	NA												
F	inal Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Da	y 788		0%	NA	NA												
	nlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	y		74%	Tue 7/11/17	NA	-											
	ervoir (Portion I) Ipen Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working Da	γ		81%	Thu 30/8/18	NA												_
т	renchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	y		56%	Tue 7/11/17	NA												
	pen Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO	1221 days	Thu 23/8/18	Fri 7/10/22	HK Working Da	ly		91%	Thu 23/8/18	NA												
S	outh Waterfront Promenade Vater Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)		Wed 17/6/20		HK Working Da			60%	Wed 17/6/20	NA											_	
							765		Thu 20/8/20													
	Vater Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)		Thu 20/8/20																			
Р	renchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to it P)		Fri 28/2/20		HK Working Da		765		Fri 28/2/20													
Т	renchless Work from Po Yap Road Roundabout (Hong Kong Velodrome)	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Da	lΥ.	765		Tue 2/4/19													
V	Vater Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Da	IY		80%	Tue 7/11/17	NA	-											
	300 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, rilization and Water Sampling	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA					-							
	tatic Pressure Test	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA										7		
F	ipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA												
5	terilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA												_
NS:	50 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day	Baro Solitar Ad		0%	NA	NA							,					_
Wat	ter Sampling Idover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23		Calendar Day			0%	NA	NA								-			-	_
	ter Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area		Tue 7/11/17		HK Working Da	av.			Tue 7/11/17													
	ter Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area ' (Portion J)	445 uays	142 //11/1/	54(11/5/15	The Working Da			5570		a de la dese												
	ramme No. 15 Task Summary		e Milestone		ation-only 🗾 nual Summary Rollup 🗖	Start-only Finish-only		ernal Milesto adline	e 💠	Critical S Progress												

							Project: Mainlaying in Tse	ung Kwan O												
Т	'ask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2018 2019 2019 2019 2019 2019	2020 22 Q3 Q4 Q1	Q2 Q3 Q4	2021 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 2	023 Q1 Q2 Q3	2024 2024 Q4 Q1 Q2	Q3 Q4 Q	25 21 Q2
1	Key Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	•									
	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA									5/9	
-	Mainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA										
	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service Reservoir (Portion I)	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	ay		74%	Tue 7/11/17	NA										
	Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	ау		56%	Tue 7/11/17	NA										
	Trenchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24	HK Working Da	ау	763	51%	Fri 2/8/19	NA		•								
	New Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Da	ау		0%	Thu 14/4/22	NA										
	XP Application for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Da	y 274	278,279,286	0%	NA	NA										
	Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Da	y 275	288,285,284	0%	NA	NA										
	Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	HK Working Da	y 279	288	0%	NA	NA										
	Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Da	y 279,284	290	0%	NA	NA										
	Headshield Tunneling fom Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	HK Working Da	y 288	292	0%	NA	NA										
	MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	Mon 11/12/23	Calendar Day	290	295,296	0%	NA	NA										
	Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Da	ay 292,283		0%	NA	NA										
	Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Da	ay 292		0%	NA	NA										
100000000000000000000000000000000000000	DN800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA										
	Static Pressure Test	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA				-						
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224,251,306	774	0%	NA	NA										
1	Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA				-						
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chambe at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A	r 90 days	Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA										
	Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA									44	
	DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,778	3,7 787	0%	NA	NA										
	Handover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA							-			
1	DN1200 MS Pipe - Portion I & Portion H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA										

Working Programme No. 15	Task		Summary	¢	Inactive Milestone		Duration-only		Start-only	E	External Milestone	0	Critical Split	
Data Date : 24 May 2022	Split		Project Summary	1 1	Inactive Summary	[Manual Summary Rollup		Finish-only	3	Deadline	+	Progress	
Data Date : 24 May 2022	Milestone	٠	Inactive Task		Manual Task		Manual Summary	·1	External Tasks	Para de la calega	Critical		Manual Progress	The second

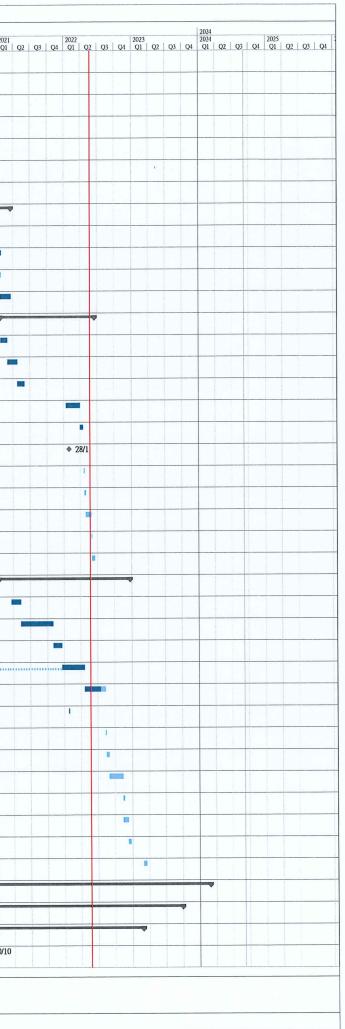
Task l	Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish			2019 2019							0000	20	J24	1.222	
	and the second								-		Q4 Q1	Q2 Q3 Q4	2019 Q1 Q2	Q3 Q4 Q1	0 1 Q2 Q3 Q	2021 Q1 Q	2 Q3 Q4	4 Q1 Q2	2 Q3 Q4	2023 Q1 Q2	Q3 Q4 0	24 21 Q2 Q3	Q4 Q1	Q2
y	/ Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	-													
	Contract Date	0 days	Tue 7/11/17	Tue 7/11/17	Calendar Day		67,59,60FS+27	100%	Tue 7/11/17	Tue 7/11/17	7/11													
				Thu 10/11/17	Calendar Day		days,61,62,58 4,5FS+730 days,6FS+1279											-						
5	itarting Date	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day		4,5F5+730 days,6F5+1279 days																	
A	Access Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	♦ 16/11													
A	Access Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19				16/1	1									
		0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21						•	18/5					_		
C	Completion Date (Contract)	ouuys															18/5					_		
E	EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Da	у б	8	100%	Tue 18/5/21	Tue 18/5/21							1015							
E	EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								19/1						
F	Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								19/1						
			Thu 5 10/24	Thu 5 /0/24	Calendar Day	1255		0%	NA	NA			-			-		-				•	5/9	-
F	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		076	NA	NA														-
C	Defect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA										19/1				
Ma	ainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day	A CONTRACTOR OF STREET	10FF	77%	Tue 7/11/17	NA	P		-											0.01
		1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day			100%	Tue 12/6/18	Tue 18/1/22		V					_							-
1	Issued Compensation Events (General)											▲ 10%		-	-									
	Issue CE No. 03 - Upgrading of bandwidth of Internet Services for Site Accommodation	0 days	Tue 12/6/18	Tue 12/6/18	Calendar Day		68	100%	Tue 12/6/18	Tue 12/6/18		12/6												
	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN1	L6 0 days	Thu 12/7/18	Thu 12/7/18	Calendar Day		68	100%	Thu 12/7/18	Thu 12/7/18		12/7												
	to PN25 Issue CE No. 08 - Change in Number of Fixed IP Address for Broadband Connection for	0 days	Tue 4/12/18	Tue 4/12/18	Calendar Day			100%	Tue 4/12/18	Tue 4/12/18			4/12											
	Site Accommodation		Thu 28/2/19	Thu 28/2/19	Calendar Day			100%	Thu 28/2/19	Thu 28/2/10			♦ 28/2											-
	Issue CE No. 10 - Contractor Design of The Realignment	0 days	Thu 28/2/19	Thu 26/2/19	Calendar Day			10078													-			
	Issue CE No. 13 - Excavation of Inspection Pits for the Realignments	0 days	Wed 15/5/19	Wed 15/5/19	Calendar Day			100%	Wed 15/5/19	Wed 15/5/19			15	5/5										
	Issue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	Fri 16/8/19	Fri 16/8/19	Calendar Day		85	100%	Fri 16/8/19	Fri 16/8/19				16/8			-							
	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in	n 0 days	Tue 31/12/19	Tue 31/12/19	Calendar Day			100%	Tue 31/12/19	Tue 31/12/19				\$ 3	1/12									-
	the Wan Po Road J/O Lohas Park Road																-							
	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2)	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day			100%	Fri 22/5/20	Fri 22/5/20					22/5									
	z) Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	Tue 9/6/20	Tue 9/6/20	Calendar Day			100%	Tue 9/6/20	Tue 9/6/20					9/6									
	Issue CE No. 74 - Reinstatement of existing carriageway along Wan Po Road using	0 days	Thu 13/8/20	Thu 13/8/20	Calendar Day			100%	Thu 13/8/20	Thu 13/8/20				1	13/	/8								T
	PMSMA10				Color das Dau			100%	Fri 21/8/20	Fri 21/8/20				-	21	/8		_						-
	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3)	U days	Fri 21/8/20	Fri 21/8/20	Calendar Day																			-
	Issue CE No. 72 - Temporary Reinstatement of Deteriorated Grasscrete Road by	0 days	Mon 31/8/20	Mon 31/8/20	Calendar Day			100%	Mon 31/8/20	Mon 31/8/20					 31 	1/8								
	Bituminous Pavement along TKO South Waterfront Promenade Issue CE No. 73 - Reinstatement of existing Geotextile in Area of Stage 1 Landfill	0 days	Wed 9/9/20	Wed 9/9/20	Calendar Day			100%	Wed 9/9/20	Wed 9/9/20					\$ 9	/9								
	between Chainage FC12+20 and Chainage FC13+26 Issue CE No. 81 - Additional Noise Monitoring for the Realignment Works	0 days	Tue 22/9/20	Tue 22/9/20	Calendar Day			100%	Tue 22/9/20	Tue 22/9/20				-		22/9								-
		0 days														02/0						_		
	Issue CE No. 78 - Excavation of Inspection Pits for Additional Connection Point to The Existing Water Supply system	0 days	Wed 23/9/20	Wed 23/9/20	Calendar Day			100%	Wed 23/9/20	Wed 23/9/20						23/9								
	Issue CE No. 82 - Suspension of Site Works due to Coronavirus Disease	0 days	Wed 21/10/20	Wed 21/10/20	O Calendar Day			100%	Wed 21/10/20	Wed 21/10/2	.0				•	21/10								
	Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location	n 0 days	Wed 28/10/20) Wed 28/10/20	O Calendar Day			100%	Wed 28/10/20	Wed 28/10/2	.0				•	28/10								
	A)							100%	Man 22/11/20	Man 22/11/2						23/11		_						-
	Issue CE No. 90 - Temporary Relocation of Bicycle Parking spaces near HK Velodrome	0 days	Mon 23/11/20) Mon 23/11/20) Calendar Day			100%	Mon 23/11/20	11/2	.0													
	Issue CE No. 83 - Inspection pits for the Realignment in Wan Po Road and Lohas Park	0 days	Sat 19/12/20	Sat 19/12/20	Calendar Day			100%	Sat 19/12/20	Sat 19/12/20						• 19/12								
	Road Issue CE No. CE - Site Clearance of Affected Trees and Plants for Mainlaying works nea	ar O days	Fri 18/12/20	Fri 18/12/20	Calendar Day			100%	Fri 18/12/20	Fri 18/12/20						18/12								
	Po Hong Road and Ling Hong Road		Wed 20/1/21	Wed 20/1/21	Calendar Day			100%	Wed 20/1/21	Wed 20/1/21						20/1								
	Issue CE No. 99 - Excavation of Inspection pit near Mau Wu Tsai Village at Po Lam Road South													<u>^</u>		-								
1	Issue CE No. 101 - Uncharted Irrigation Pipe in TKO South Promenade Waterfront's Cyc Track at CH.FC6+64	cle 0 days	Fri 29/1/21	Fri 29/1/21	Calendar Day			100%	Fri 29/1/21	Fri 29/1/21						29/2								
	Irack at CH.PC6+64 Issue CE No. 103 - Renewal of Excavation Permit	0 days	Wed 10/2/21	Wed 10/2/21	Calendar Day			100%	Wed 10/2/21	Wed 10/2/21						10/	2							
	Issue CE No. 105 - Suspension of Works in Wan Po Road 1st Works Site due to Shortage	e 0 davs	Tue 23/2/21	Tue 23/2/21	Calendar Day			100%	Tue 23/2/21	Tue 23/2/21						♦ 23	12							
	of Backfilling Material Caused by COVID-19															26	5/2							
	Issue CE No. 104 - Works in Tsui Lam Section (Batch No.2) were Suspended due to Disruption to Supply of Construction Material Caused b COVID-19	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21														
	Issue CE No. 106 - Works in Tsui Lam Section (Batch No.3) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						26	6/2							
	Disruption to Supply of Construction Material Caused b COVID-19 Issue CE No. 108 - Works in Tsui Lam Section (Batch No.3) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						♦ 26	5/2							T
	Disruption to Supply of Construction Material Caused b COVID-19									Mon 8/3/21						\$ 8	13			-				_
	Issue CE No. 107 - Affected Trees near Mau Wu Tsai Village between CH.HAO+00 and C HAO+70	ch. U days	Mon 8/3/21	Mon 8/3/21	Calendar Day			100%	Mon 8/3/21															
-	Issue CE No. 110 - Inaccessible to Works Area Ch.HA2+10 due to Deteriorated Concret	te 0 days	Thu 8/4/21	Thu 8/4/21	Calendar Day			100%	Thu 8/4/21	Thu 8/4/21						*	8/4							
1	Access											1					i							
	Programme No. 15 Task. Summary Project Summary		tive Milestone tive Summary		uration-only anual Summary Rollup	Start-only Finish-only		temal Milesto eadline	ne 🗇	Critical Progress														
	te : 24 May 2022 Split Project Summary		ual Task		anual Summary	External Ta		itical	-	Manual														

Nama	Duration Start	Finish	Task Calendar	Predecessors	Successors	%	Actual Start	Actual Finish			2024
Name	Banach					Complete			2018	2019 2020 2021 2022 2023 2033 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 204 203 203 203 204 203	2024 2024 Q1 Q2 Q3 Q4 Q1 4
Issue CE No. 112 - Works Delayed in Portion H due to COVID-19	0 days Wed 14/4	/21 Wed 14/4/21	Calendar Day			100%	Wed 14/4/21	Wed 14/4/21	Q4 QI Q2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
lssue CE No. 113 - Special Cleaning of Workfronts from CH.A0+00 to CH.A13+70 at War	1 0 days Fri 30/4/2	1 Fri 30/4/21	Calendar Day			100%	Fri 30/4/21	Fri 30/4/21		* 30/4	
Po Road						100%	Mon 24/5/21	Mon 24/5/21		◆ 24/5	
lssue CE No. 116 - Special Mosquito and Biting Midges Prevention Measures from CH.FB0+00 to Ch.FB5+34 and Ch.FC0+0 0to FC13+26 along TKO South Waterfront	0 days Mon 24/5										
Issue CE No. 119 - Professional Indemnity Insurance for the Conforming Designs unde C No.55, 62 and 77	CE 0 days Mon 31/5	/21 Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21		♦ 31/5	
Issue CE No. 120 - Left-in Sheet Pile for Manual Excavation in Po Lam Road at CH.HA6+	55 0 days Mon 31/5	/21 Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21		♦ 31/5	
Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous extent	0 days Tue 12/1	0/21 Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	Tue 12/10/21		♦ 12/10	
of UU obstruction in Wan Po Road at CH. A0+88 Issue CE No. 129 - Special Cleaning of Workfronts from CH.HA0+00 to CH.A13+70 at W	an O days Tue 26/10	0/21 Tue 26/10/21	Calendar Day			100%	Tue 26/10/21	Tue 26/10/21		◆ 26/10	
po Road in Sep 2021 Issue CE No. 100 - Additional Mainlaying Works at Ling Hong Road and HK Velodrome		2/21 Tue 14/12/21	Calendar Day			100%	Tue 14/12/21	Tue 14/12/21		◆ 14/12	
										◆ 24/12	-
Issue CE No. 131 - Additional Traffic Court and Analysis for TTA Application	0 days Fri 24/12	/21 Fri 24/12/21	Calendar Day				Fri 24/12/21				
Issue CE No. 138 - Additional Inspection Pits for Realignment of DN800 Water Main in TKOFWPSR	0 days Fri 24/12	/21 Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21		* 24/12	
Issue CE No. 141 - Provision of Suitable land Transport for Site Supervision in Tseung	0 days Wed 29/	2/21 Wed 29/12/2	1 Calendar Day			100%	Wed 29/12/21	Wed 29/12/2	1	◆ 29/12	
Kwan O Area 137 (Dec 2021 - Sept 2022) Issue CE No. 136 - Additional Resurfacing Works at Wan Po Road Near TKO Area 137	0 days Fri 31/12	/21 Fri 31/12/21	Calendar Day			100%	Fri 31/12/21	Fri 31/12/21		◆ 31/12	
Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Portion i	n 0 days Tue 18/1	/22 Tue 18/1/22	Calendar Day		125FF	100%	Tue 18/1/22	Tue 18/1/22		♦ 18/1	
TKO Area 137						100%	Tue 7/11/17	Sat 30/4/22			
Preliminaries	1636 days Tue 7/11								-		
Submission and Permit Application	322 days Tue 7/11	/17 Mon 24/9/1	8 Calendar Day			100%	Tue 7/11/17	Mon 24/9/18			
Submission of Safety Plan	35 days Tue 7/11	/17 Mon 11/12/1	7 Calendar Day	2		100%	Tue 7/11/17	Mon 11/12/1	7 🗖		
Submission of Site Management Plan and Trip Ticket	45 days Tue 7/11	/17 Thu 21/12/1	7 Calendar Day	2		100%	Tue 7/11/17	Thu 21/12/17			
Submission of Key People	14 days Mon 4/1	2/17 Sun 17/12/1	7 Calendar Day	2FS+27 days		100%	Mon 4/12/17	Sun 17/12/17			
	30 days Tue 7/11	/17 Wed 6/12/1	Calendar Day	2		100%	Tue 7/11/17	Wed 6/12/17			
Submission of Subcontractor Management Plan											
Submission of First Programme	7 days Tue 7/11	/17 Mon 13/11/3	L7 Calendar Day	2		100%		Mon 13/11/1			
Submission of Pipe Material (PN16)	54 days Thu 1/2/	18 Tue 27/3/18	Calendar Day	4	64	100%	Thu 1/2/18	Tue 27/3/18			
Approval of Pipe material submission (PN16)	137 days Wed 28/	3/18 Sat 11/8/18	Calendar Day	63	92SS+7 days	100%	Wed 28/3/18	Sat 11/8/18			
Appointment of Environmental Team	10 days Wed 9/5	/18 Fri 18/5/18	Calendar Day	81	66	100%	Wed 9/5/18	Fri 18/5/18	1		
Environmental Baseline Monitoring	17 days Tue 29/5	/18 Thu 14/6/18	Calendar Day	65		100%	Tue 29/5/18	Thu 14/6/18			· · ·
			7 Calendar Day			100%	Tue 7/11/17	Thu 21/12/17	7		
Submission of Environmental Management Plan	45 days Tue 7/11										
Submission & Approval of CE01 Pipe Material PN25	75 days Thu 12/7	/18 Mon 24/9/1	8 Calendar Day	14,15	96	100%	Thu 12/7/18	Mon 24/9/18			
Subcontracting	1122 days Thu 16/:	.1/17 Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20			
Submission and Approval	122 days Thu 16/:	1/17 Sat 17/3/18	Calendar Day			100%	Thu 16/11/17	Sat 17/3/18	<u> </u>		
Submission of sub-contractor selection procedure	24 days Thu 16/3	1/17 Sat 9/12/17	Calendar Day	4	72	100%	Thu 16/11/17	Sat 9/12/17			
Approval of sub-contractor selection procedure	42 days Sun 10/2	2/17 Sat 20/1/18	Calendar Day	71	87,82,83FS+10 days,86	100%	Sun 10/12/17	Sat 20/1/18			
			, Calendar Day		74	100%	Sun 21/1/18	Sat 2/2/18			
Submission of Sub-contractor Condition	14 days Sun 21/:										
Approval of Sub-contractor Condition	42 days Sun 4/2/	18 Sat 17/3/18	Calendar Day	73	87,82,83FS+10 days,86		Sun 4/2/18				
Submission of Supplier Selection Procedure	75 days Thu 16/	1/17 Mon 29/1/1	8 Calendar Day	4	76	100%	Thu 16/11/17	Mon 29/1/18	3		
Approval of Supplier Selection Procedure	42 days Tue 30/2	/18 Mon 12/3/1	8 Calendar Day	75	92	100%	Tue 30/1/18	Mon 12/3/18	3		
Subcontractor Selection and Subcontracting	1115 days Thu 23/	11/17 Fri 11/12/20) Calendar Day			100%	Thu 23/11/17	Fri 11/12/20	-		
Traffic Consultant for Investigation Works	30 days Thu 23/	L1/17 Fri 22/12/17	' Calendar Day	4		100%	Thu 23/11/17	Fri 22/12/17			
					250		Fri 5/1/18	Sat 3/2/18			
Consultancy: Landscape for Investigation works	30 days Fri 5/1/2		Calendar Day		250						
Consultancy: Traffic consultant	55 days Wed 21	/2/18 Mon 16/4/1	8 Calendar Day			100%	Wed 21/2/18	Mon 16/4/18	3		
Environmental Team	9 days Mon 16	/4/18 Tue 24/4/18	8 Calendar Day		65	100%	Mon 16/4/18	Tue 24/4/18			
Temporary site office, hoarding & project sign board	75 days Thu 22/	3/18 Mon 4/6/18	Calendar Day	74,72	89FS+13 days	100%	Thu 22/3/18	Mon 4/6/18			
Consultancy: Independent Checking Engineer	12 days Mon 14	/5/18 Fri 25/5/18	Calendar Day	72FS+10 days,74FS+10		100%	Mon 14/5/18	Fri 25/5/18			
		/9/18 Thu 18/10/2		days			Wed 26/9/18		8		
Survey Services	25 days wed 20	5,10 ma 16,10,				10070					
Task Summary	Inactive Milestone	.6	Duration-only	Start-only	C B	External Milesto	ne 🔶	Critical	Split		
Programme No. 15	Inactive Summary	1	Manual Summary Rollup	Finish-only] [Deadline	+	Progress			

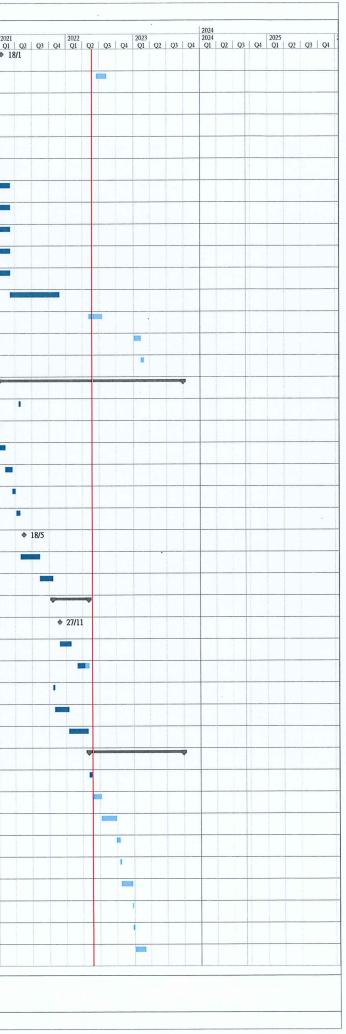
	me	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Actual Start	Actual Finish	2010
	me.							Complete		2019 2024 2024 2024 2024 2025 2025 2025 2025 2024 2025 <th< th=""></th<>
	Sacrificial Anode Cathodic Protection (SACP)	82 days	Thu 30/5/19	Mon 19/8/19	Calendar Day	19	99	100% Thu 30/5/19	Mon 19/8/19	
	Landscaping Works	42 days	Thu 6/9/18	Wed 17/10/18	Calendar Day	72,74		100% Thu 6/9/18	Wed 17/10/18	8
	Miscellaneous	1000 days	Sun 18/3/18	Fri 11/12/20	Calendar Day	74,72		100% Sun 18/3/18	Fri 11/12/20	
	Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100% Tue 2/1/18	Thu 9/8/18	
	Setting up PM's and Contractor Accommodation	90 days	Sat 12/5/18	Thu 9/8/18	Calendar Day	82FS+13 days		100% Sat 12/5/18	Thu 9/8/18	
		60 days	Tue 2/1/18	Fri 2/3/18	Calendar Day			100% Tue 2/1/18	Fri 2/3/18	
	Initial Survey of the Site	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100% Sat 7/4/18	Sat 30/4/22	
	Procurement of Major Material			Fri 13/4/18		64SS+7 days,76	93	100% Sat 7/4/18	Fri 13/4/18	
	Preparation of Purchase Order	7 days	Sat 7/4/18				94	100% Sat 14/4/18	Sun 17/6/18	
	1st Batch of Material Delivery	65 days	Sat 14/4/18	Sun 17/6/18	Calendar Day					
	1st Batch of Material Delivery on site	0 days	Fri 29/6/18	Fri 29/6/18	Calendar Day	93	95	100% Fri 29/6/18	Fri 29/6/18	* 29/6
	Material Delivery by Batches	1401 days	Sat 30/6/18	Sat 30/4/22	Calendar Day	94		100% Sat 30/6/18	Sat 30/4/22	
	Preparation of CE01 Purchase Order	7 days	Tue 25/9/18	Mon 1/10/18	Calendar Day	68	97	100% Tue 25/9/18	Mon 1/10/18	
	1st Batch of CE01 Material Delivery	90 days	Tue 2/10/18	Sun 30/12/18	Calendar Day	96	98	100% Tue 2/10/18	Sun 30/12/18	
	1st Batch of CE01 Material Delivery on site	1 day	Tue 22/1/19	Tue 22/1/19	Calendar Day	97		100% Tue 22/1/19	Tue 22/1/19	
	SCAP Material Submission and Approval	261 days	Tue 20/8/19	Wed 6/5/20	Calendar Day	85	100	100% Tue 20/8/19	Wed 6/5/20	
	SCAP Purchase Order & Material Delivery	115 days	Mon 22/6/20	Wed 14/10/20	Calendar Day	99		100% Mon 22/6/20	Wed 14/10/20	
1	ainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working D	ау		92% Tue 11/12/18	NA	
	Early Possession of Portion H	0 days	Mon 29/7/19	Mon 29/7/19	Calendar Day			100% Mon 29/7/19	Mon 29/7/19	◆ 29/7
	Issue Date of CE No. 07 -Water Supply to No. TKO Desalination Plant at Portion H	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104	100% Tue 22/1/19	Tue 22/1/19	◆ 22/1
	(NS250 HDPE Pipe) Material Procurement and Delivery in Batches	330 days	Tue 11/12/18	Tue 5/11/19	Calendar Day	103		100% Tue 11/12/18	Tue 5/11/19	
		597 days	Sat 10/8/19	Sat 14/8/21	HK Working D		761	100% Sat 10/8/19		
	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	341 days	Sat 10/8/19	Wed 30/9/20				100% Sat 10/8/19		
	DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut					- y		100% Thu 16/4/20		
	CH.CT1+51 - CH.265 DN1200 MS Pipe OC	82 days	Thu 16/4/20	Fri 24/7/20	None					
	CH.CT0+51 - CH.1+51 DN1200 MS Pipe OC	44 days	Mon 10/2/20		HK Working D			100% Mon 10/2/20		
	CH.CT0+00 - CH.0+51 DN1200 MS Pipe OC	74 days	Thu 2/1/20	Tue 31/3/20	HK Working D			100% Thu 2/1/20		
	CH.CA0+00 - CH.4+00 DN1200 MS Pipe OC	192 days	Sat 10/8/19	Tue 31/3/20	HK Working D	ау 5		100% Sat 10/8/19	Tue 31/3/20	
	CH.KT2+80 - CH.3+60 NS250 HDPE Pipe OC with additional Tees and fire Hydrant	56 days	Tue 28/7/20	Wed 30/9/20	HK Working D	ау		100% Tue 28/7/20	Wed 30/9/20	
	CH.KT2+23 - CH.2+80 NS250 HDPE Pipe OC	29 days	Sat 20/6/20	Sat 25/7/20	HK Working D	ау		100% Sat 20/6/20	Sat 25/7/20	
	CH.KT1+51 - CH.2+23 NS250 HDPE Pipe OC	31 days	Sat 16/5/20	Sat 20/6/20	HK Working D	ау		100% Sat 16/5/20	Sat 20/6/20	
	CH.KT0+51 - CH.1+51 NS250 HDPE Pipe OC	19 days	Tue 10/3/20	Tue 31/3/20	HK Working D	ау		100% Tue 10/3/20	Tue 31/3/20	
	CH.KT0+00 - CH.0+51 NS250 HDPE Pipe OC	50 days	Sun 2/2/20	Tue 31/3/20	HK Working D	ау		100% Sun 2/2/20	Tue 31/3/20	
	CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC	143 days	Thu 10/10/19	Tue 31/3/20	HK Working D	ау		100% Thu 10/10/19	Tue 31/3/20	
	Construction of Chambers	385 days	Wed 29/4/20	Sat 14/8/21	HK Working D	bay		100% Wed 29/4/20	Sat 14/8/21	
	Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47	60 days	Tue 5/5/20	Wed 15/7/20	HK Working D	ау		100% Tue 5/5/20	Wed 15/7/20	
	Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at	71 days	Wed 3/6/20	Wed 26/8/20		ау		100% Wed 3/6/20	Wed 26/8/20	
	CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24	385 days	Wed 29/4/20		HK Working D			100% Wed 29/4/20	Sat 14/8/21	
				Thu 22/12/22			784,762	83% Tue 22/1/19		
	Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137							100% Tue 22/1/19		◆ 22/1
	Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'		Tue 22/1/19							
	Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137		Wed 1/1/20					100% Wed 1/1/20		
	Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 13 between 137 Pit A and 137 Pit B		Tue 18/5/21	Tue 18/5/21	Calendar Day			100% Tue 18/5/21		
	Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Portio in TKO Area 137	on O days	Tue 18/1/22	Tue 18/1/22	Calendar Day	55FF	129	100% Tue 18/1/22	Tue 18/1/22	♦ 18/1
	Tendering & Approval	21 days	Mon 6/1/20	Sun 26/1/20	Calendar Day			100% Mon 6/1/20	Sun 26/1/20	

m •	1	Duration	Start	Finish	Task Calendar	Predecessors	Project: Mainlaying in Tseu Successors	%	Actual Start	Actual Finish							
Task	- Name	Dutation	Stat	1 IIISI	Task Catellula	Traccisions	Successors	Complete	ferding billet	, ictuit i minit	20	018 01 Q2 Q3	201	9 19	2	2020	
	WSD instructed to retender	0 days	Fri 3/4/20	Fri 3/4/20	Calendar Day		128	100%	Fri 3/4/20	Fri 3/4/20	Q4 Q	<u>1 Q2 Q</u> :	Q4 Q.	. Q2 Q	25 Q4 1	♦ 3/4	
-	Retendering, Review & Approval	43 days	Mon 18/5/20	Mon 29/6/20	Calendar Day	127	129	100%	Mon 18/5/20	Mon 29/6/20					_		
-		1 day	Thu 3/9/20	Thu 3/9/20	Calendar Day	128,125	135	100%	Thu 3/9/20	Thu 3/9/20					_		T
		156 days	Mon 2/9/19	Wed 11/3/20	HK Working Da			100%	Mon 2/9/19	Wed 11/3/20							
		35 days	Mon 2/9/19	Tue 15/10/19	HK Working Day			100%	Mon 2/9/19	Tue 15/10/19					-		
					HK Working Day				Mon 28/10/19								
		57 days							Tue 25/2/20							-	
		14 days	Tue 25/2/20	Wed 11/3/20	HK Working Day												-
	Construction of jacking / Receiving Pits	106 days	Mon 9/11/20	Thu 18/3/21	HK Working Da				Mon 9/11/20								
	Mobilization and Setup & Preliminary Works	3 days	Mon 9/11/20	Wed 11/11/20	Calendar Day	129	136,137,138	100%	Mon 9/11/20	Wed 11/11/20		-					1
	Receiving Pit 137A (Renopipe)	58 days	Mon 16/11/20	Mon 25/1/21	HK Working Day	135	141FF-30 days	100%	Mon 16/11/20	Mon 25/1/21							
	Jacking Pit 137B (Renopipe)	59 days	Thu 12/11/20	Fri 22/1/21	HK Working Day	135	140	100%	Thu 12/11/20	Fri 22/1/21							
-	Receiving Pit 137C (Renopipe)	49 days	Mon 18/1/21	Thu 18/3/21	HK Working Day	135	152	100%	Mon 18/1/21	Thu 18/3/21							
-	TBM Pipe Jacking From Pit 137B to Pit 137A	410 days	Fri 22/1/21	Wed 15/6/22	HK Working Da	1	170	79%	Fri 22/1/21	NA							
	Establishment at Pit 137B	29 days	Fri 22/1/21	Sat 27/2/21	HK Working Day	137	141	100%	Fri 22/1/21	Sat 27/2/21							
_	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A)	42 days	Mon 1/3/21	Thu 22/4/21	HK Working Day	140,136FF-30 days	142	100%	Mon 1/3/21	Thu 22/4/21							-
_	(CH.CC0+10 to CH.CC.1+24) in Soil mixed with rubbish (114m; 3m/day)	31 days	Fri 23/4/21	Mon 31/5/21	HK Working Day	/ 141	143	100%	Fri 23/4/21	Mon 31/5/21				_			
_		62 days	Wed 12/1/22	Mon 28/3/22	HK Working Day	154,142	145	100%	Wed 12/1/22	Mon 28/3/22		_					
		14 days	Tue 29/3/22	Thu 14/4/22	HK Working Da		146	100%	Tue 29/3/22	Thu 14/4/22		_					
							144		Fri 28/1/22	Fri 28/1/22							
		0 days	Fri 28/1/22	Fri 28/1/22	HK Working Da										_		
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Tue 19/4/22	Thu 21/4/22	HK Working Da		147	0%	NA	NA							
	Grouting Works (20 meter/day)	6 days	Fri 22/4/22	Thu 28/4/22	HK Working Da	/ 146	148	0%	NA	NA							
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	Fri 29/4/22	Sat 28/5/22	HK Working Da	/ 147	149	0%	NA	NA				1			
	Remove ELS and Extract Sheetpile at Pit 137A	2 days	Mon 30/5/22	Tue 31/5/22	HK Working Da	/ 148	150	0%	NA	NA							
		12 days	Wed 1/6/22	Wed 15/6/22	HK Working Da	/ 149		0%	NA	NA							
	KC1+38 TBM Pipe Jacking From Pit 137B to Pit 137C	578 days	Tue 12/1/21	Thu 22/12/22	HK Working Da	y		74%	Tue 12/1/21	NA							
?	Revised Establishment at Pit 137B	39 days	Fri 19/3/21	Sat 8/5/21	HK Working Da	y 138	153	100%	Fri 19/3/21	Sat 8/5/21							
3	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B)	144 days	Sun 9/5/21	Sat 30/10/21	HK Working Da	y 152	154	100%	Sun 9/5/21	Sat 30/10/21				_			
	(CH.CB0+00 to CH.CB.2+46) in Soil mixed rubbish (246m; 1.5m/day) include 49 days Grouting, Remove setup at Pit 137C and Pit 137B	s 41 days	Mon 1/11/21	Fri 17/12/21	HK Working Da	y 153	155,143	100%	Mon 1/11/21	Fri 17/12/21							
5	Setup for Pipe Laving inside jacking Pit 137B to Pit 137C	95 days	Tue 12/1/21	Tue 19/4/22	HK Working Da	v 154	157	100%	Tue 12/1/21	Tue 19/4/22		-		-		-	
5		93 days	Wed 20/4/22	Wed 10/8/22	HK Working Da		158	75%	Wed 20/4/22								
	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)						156	100%	Sat 22/1/22	Thu 27/1/22							
7	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	Sat 22/1/22	Thu 27/1/22	HK Working Da												
3	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 11/8/22	Sat 13/8/22	HK Working Da		159	0%	NA	NA							
)	Grouting Works (20 meter/day)	13 days	Mon 15/8/22	Mon 29/8/22	HK Working Da	y 158	160	0%	NA	NA							
0	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	Tue 30/8/22	Thu 10/11/22	HK Working Da	y 159	162,161	0%	NA	NA							
1	Pipe Connection Inside Pit 137C	6 days	Fri 11/11/22	Thu 17/11/22	HK Working Da	y 160		0%	NA	NA							
2	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	Fri 11/11/22	Thu 8/12/22	HK Working Da	y 160	163	0%	NA	NA							
3	Remove ELS and Remove ELS and Extract Sheetpile at Pit 137C	12 days	Fri 9/12/22	Thu 22/12/22	HK Working Da	y 162		0%	NA	NA						10	
4	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Da	y 788		0%	NA	NA							
5	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working D	γ		74%	Tue 7/11/17	NA	-			_		-	
6	Reservoir (Portion I) Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working D	iy		81%	Thu 30/8/18	NA		_		_	-		No. of Concession, Name
57	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	1321 days	Mon 10/9/18		HK Working D	av.	762	88%	Mon 10/9/18	NA				_	_	_	
			Fri 30/10/20	Fri 30/10/20	Calendar Day				Fri 30/10/20								•
8	Issue CE No. 76 - Unchartered Drain Pipe in Wan Po Road between CH.A1+12 and CH.A1+14	u days	FII 30/10/20	FII 30/10/20	calendar Day			10070	111 30/ 10/ 20	11130/10/20							

Page 4



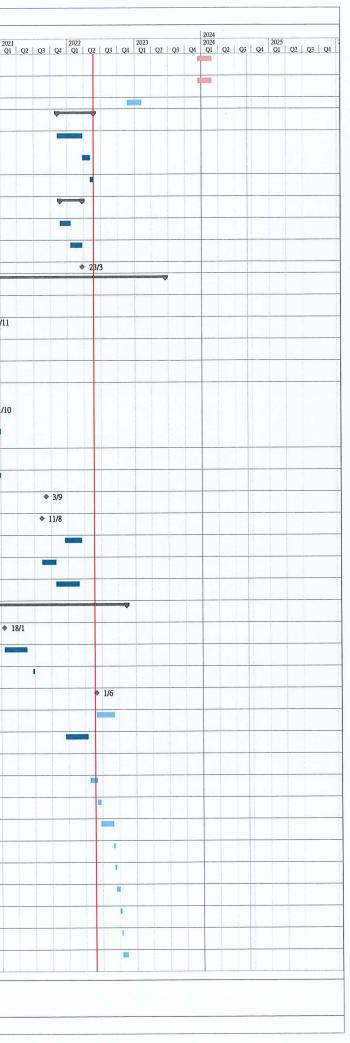
			0	P. 11	Tel Calendaria De l	Project: Mainlaying in Tseung	Kwan O	A shull Dear	A stud Photo				_					
Task	Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	20	18		2019			2020		202
59	Issue CE No. 96 - Diversion of Uncharged Irrigation pipe at CH.A2+34 at Wan Po	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day		100%	Mon 18/1/21	Mon 18/1/21	Q4 Q	1 Q2	Q3 Q4		Q2 Q?			2 Q3	
	Road																	_
0	CH.A0+00 - CH.A0+14 OC	45 days	Thu 16/6/22	Mon 8/8/22	HK Working Day 139		0%	NA	NA									
1	CH.A0+14 - CH.A0+50 OC	156 days	Thu 23/5/19	Tue 26/11/19	HK Working Day		100%	Thu 23/5/19	Tue 26/11/19									
2	CH.A0+50 - CH.A1+50 OC	42 days	Mon 10/9/18	Wed 31/10/18	HK Working Day		100%	Mon 10/9/18	Wed 31/10/18									
3	CH.A1+50 - CH.A1+60 OC	53 days	Thu 1/11/18	Fri 4/1/19	HK Working Day		100%	Thu 1/11/18	Fri 4/1/19									
4	CH.A1+60 - CH.A2+14 OC	107 days	Sat 5/1/19	Mon 20/5/19	HK Working Day		100%	Sat 5/1/19	Mon 20/5/19									-
75	CH.A2+14 - CH.A2+30 OC	150 days	Tue 1/9/20	Thu 4/3/21	HK Working Day		100%	Tue 1/9/20	Thu 4/3/21									-
76		105 days	Tue 27/10/20	Thu 4/3/21	HK Working Day		100%		1									
	CH.A2+30 - CH.A2+46 OC																	
77	CH.A2+46 - CH.A2+70 OC	93 days	Tue 10/11/20	Thu 4/3/21	HK Working Day	178	100%	Tue 10/11/20	Thu 4/3/21									
78	CH.A2+70 - CH.A2+86 OC	74 days	Wed 2/12/20	Thu 4/3/21	HK Working Day 177		100%	Wed 2/12/20	Thu 4/3/21									
79	CH.A2+86 - CH.A2+94 OC	48 days	Tue 5/1/21	Thu 4/3/21	HK Working Day	180	100%	Tue 5/1/21	Thu 4/3/21									
.80	CH.A2+94 - CH.A3+34.5 OC (Excluding Road reinstatement	218 days	Fri 5/3/21	Fri 26/11/21	HK Working Day 179	195	100%	Fri 5/3/21	Fri 26/11/21									
81	CH.A3+34.5 - CH.A3+60 OC with DN150 DAV	60 days	Wed 4/5/22	Fri 15/7/22	HK Working Day 197	182	0%	NA	NA	-			-				_	
82	CH.A3+60 and connecting to Pit 1	30 days	Tue 3/1/23	Thu 9/2/23	HK Working Day 209,181	211,183	0%	NA	NA					-			_	
183							0%	NA	NA			-						
	Road reinstatement CH.A2+94 - CH.3+60	14 days	Fri 10/2/23	Sat 25/2/23	HK Working Day 182													
184	Trenchless Works (Pit 1 to Pit 2)	811 days	Mon 4/1/21	Thu 28/9/23	HK Working Day	762	61%	Mon 4/1/21	NA									
185	Ground Investigation & Drilling Bored Hole at Receiving Pit 1	9 days	Tue 20/4/21	Thu 29/4/21	HK Working Day	192	100%	Tue 20/4/21	Thu 29/4/21									
186	Setting out the inspection Pit for Jacking Pit 2	1 day	Mon 4/1/21	Mon 4/1/21	HK Working Day	187	100%	Mon 4/1/21	Mon 4/1/21									1
187	Mobilization and Excavation of Inspection Pit at Pit 2	28 days	Tue 5/1/21	Fri 5/2/21	HK Working Day 186	188	100%	Tue 5/1/21	Fri 5/2/21									-
188	Review alternative location for Pit 2 by WSD	29 days	Sat 6/2/21	Mon 15/3/21	HK Working Day 187	189	100%	Sat 6/2/21	Mon 15/3/21								-	-
189	Mobilization and excavation of Inspection Pit 2 after relocation	15 days	Tue 16/3/21	Thu 1/4/21	HK Working Day 188	190	100%	Tue 16/3/21	Thu 1/4/21				_					
						192	100%	Wed 7/4/21	Mon 26/4/21				_		_		_	_
190	Mobilization; Ground Investigation & Drilling Bored Hole at Receiving Pit 2	17 days	Wed 7/4/21	Mon 26/4/21	HK Working Day 189	192										-		
191	Issue EWN no. 405	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day		100%	Tue 18/5/21	Tue 18/5/21									
192	Subletting and Re-Design for Pit 1 & Pit 2 (Changing from conventional sheet pilin method to pipe pilling method	g 84 days	Fri 30/4/21	Tue 10/8/21	HK Working Day 185,190	193	100%	Fri 30/4/21	Tue 10/8/21									
193	Tendering, Subletting and Award for Constructing Pit 1 & Pit 2 (Pipe Pilling Metho	od) 57 days	Wed 11/8/21	Tue 19/10/21	HK Working Day 192	198,196	100%	Wed 11/8/21	Tue 19/10/21									
194	Construction of Jacking / Receiving Pits	157 days	Wed 20/10/2	1 Tue 3/5/22	HK Working Day		94%	Wed 20/10/2:	NA	-								
195	Renopipe Release the working area for Luen Hing at Pit 1	0 days	Sat 27/11/21	Sat 27/11/21	HK Working Day 180	196	100%	Sat 27/11/21	Sat 27/11/21									
196	Set up and Driving Pipe Piles and Grouting for Pit 1	50 days	Sat 27/11/21	Thu 27/1/22	HK Working Day 195,193	197	100%	Sat 27/11/21	Thu 27/1/22	+								
		48 days	Thu 3/3/22	Tue 3/5/22	HK Working Day 196	208,181	70%	Thu 3/3/22	NA		_							
197	Excavation and ELS installation for Pit 1												_					_
198	Renopipe Release the working area for Luen Hing TTA Implement at Pit 2	9 days	Wed 20/10/2	1 Fri 29/10/21	HK Working Day 193	199	100%	Wed 20/10/21	Fri 29/10/21									
199	Mobilization, Establishment, Driving Pipe Piles and Grouting for Pit 2	63 days	Sat 30/10/21	Fri 14/1/22	HK Working Day 198	200	100%	Sat 30/10/21	Fri 14/1/22									
200	Excavation and ELS installation for Pit 2	82 days	Sat 15/1/22	Thu 28/4/22	HK Working Day 199	203	100%	Sat 15/1/22	Thu 28/4/22									
201	TMB Pipe Jacking Pit 1- Pit 2	420 days	Wed 4/5/22	Thu 28/9/23	HK Working Day		4%	Wed 4/5/22	NA									
202	Additional GI Works beside Pit 2	12 days	Wed 4/5/22	Wed 18/5/22	HK Working Day	203	100%	Wed 4/5/22	Wed 18/5/22				-		-			
203	Mobilization & setup at Pit 2	40 days	Thu 19/5/22	Wed 6/7/22	HK Working Day 200,202	204	0%	NA	NA				+-					-
204	TBM Jacking Sleeve Pipe (L=138m, 2m/day)	69 days	Thu 7/7/22	Mon 26/9/22	HK Working Day 203	205	0%	NA	NA		_							
					and a first state of the second	206	0%	NA	NA		_		_		-	_		
205	Grouting and Remove Setup including Thrust Wall	14 days	Tue 27/9/22	Fri 14/10/22	HK Working Day 204											-		
206	Setup Guard Rail	6 days	Sat 15/10/22	Fri 21/10/22	HK Working Day 205	207	0%	NA	NA									
207	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per Joint)	51 days	Sat 22/10/22	Tue 20/12/22	HK Working Day 206	208	0%	NA	NA									
208	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	Wed 21/12/2	2 Fri 23/12/22	HK Working Day 207,197	209	0%	NA	NA									
209	Grouting Works (30m/day)	5 days	Sat 24/12/22	Sat 31/12/22	HK Working Day 208	210,182	0%	NA	NA	+								-
210	Construction of Combined Inspection and Washout Chamber Type I at Pit 2	45 days	Tue 3/1/23	Mon 27/2/23	HK Working Day 209	217,218,220	0%	NA	NA	++			+					
			• 100 • Proposition										_					
Working	Programme No. 15		ctive Milestone		ration-only Start-only		Atemal Milest		Critical Spl	it								
	re: 24 May 2022 Split Project Summary Nilestone Inactive Task		rtive Summary 🛛 🕅 nual Task 📃		nual Summary Rollup Finish-on nual Summary External		eadline ritical	+	Progress Manual Pro	gress								
						Page 5												



		Duration	Start	Finish	Task Calendar	Predecessors	Successors	c.	Actual Start	Actual Finish													
		Duration	Start	Finish	Task Calendar	110000055015	Successors	% Complete	rictual Start	Pressal I HIISH	2018 Q4 Q1 Q2	2	19 19	2020		2021		2022		2023	20	024 024	202
	Backfill, Remove ELS and Road Reinstatement at Pit 1	30 days	Fri 10/2/23	Thu 16/3/23	HK Working Day	182		0%	NA	NA	Q4 Q1 Q2	Q3 Q4 (1 Q2 Q3	Q4 Q1 (22 Q3 Q	Q1 Q	Q3 Q4	Q1 Q2	Q3 Q4		<u>vs</u> vi (21 Q2 Q3	Q4 Q1
	Backfill, Remove ELS and Road Reinstatement at Pit 2	, 30 days	Fri 25/8/23	Thu 28/9/23	HK Working Day	217		0%	NA	NA								_					
	Toreport and a second se						762		Thu 30/8/18						-	-							
	n Cut CH.A5+29.5 (Pit 2) to CH.A7+12		Thu 30/8/18	Thu 24/8/23	HK Working Da		102						1/2										
	ue CE No. 06 - Unforeseen Underground Condition during Trench Excavation for ainlaying at Wan Po Road between CH.A6+90 and CH.A7+10	0 days	Fri 1/2/19	Fri 1/2/19	Calendar Day			100%	Fri 1/2/19	Fri 1/2/19			1/2										
Iss		0 days	Mon 20/1/20	Mon 20/1/20	Calendar Day			100%	Mon 20/1/20	Mon 20/1/20				20/1									
Iss	ue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at	0 days	Mon 29/6/20	Mon 29/6/20	Calendar Day			100%	Mon 29/6/20	Mon 29/6/20					29/6								
	an Po Road between CH.A6+68 and CH.A6+88 I.A5+16 and Connecting to Pit 2	30 days	Fri 21/7/23	Thu 24/8/23	HK Working Day	210,218	212	0%	NA	NA													
Cł	I.A5+16 - CH.A5+27 OC with DN900 Valve Chamber	115 days	Tue 28/2/23	Thu 20/7/23	HK Working Day	219,210	217	0%	NA	NA											-		
		272 days	Mon 28/12/20		HK Working Day	221	218,220	100%	Mon 28/12/20) Fri 26/11/21										-			
							210,220																
Co	onstruction of Tee Branch and Monitoting Chamber at CH.A5+35	90 days	Tue 28/2/23	Mon 19/6/23	HK Working Day	210,219			NA	NA									-				
Cł	1.A6+20 - CH.A6+54 OC	205 days	Wed 22/4/20	Sat 26/12/20	HK Working Day	222	219	100%	Wed 22/4/20	Sat 26/12/20													
CI	H.A6+54 - CH.A6+70 OC + Handshield	378 days	Mon 14/1/19	Sun 26/4/20	HK Working Day		221	100%	Mon 14/1/19	Sun 26/4/20		J											
CI	H.A6+70 - CH.A7+12 OC	111 days	Thu 30/8/18	Sat 12/1/19	HK Working Day		233	100%	Thu 30/8/18	Sat 12/1/19		Real Property lies											
pe	n Cut CH.A7+12 to CH.A13+79.5	1323 days	Wed 19/9/18	Thu 9/3/23	HK Working Da	/	762,763	85%	Wed 19/9/18	NA		P											
		0 days		Mon 27/5/19	Calendar Day			100%	Mon 27/5/19	Mon 27/5/19	1		♦ 27/5										
W	/an Po Road between CH/A12+89 and Ch.A13+04									Wed 19/6/19			19/					-					
	sue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and sui Lam Road	0 days	Wed 19/6/19	Wed 19/6/19																			
	sue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near H.A12+40	0 days	Thu 22/8/19	Thu 22/8/19	Calendar Day			100%	Thu 22/8/19	Thu 22/8/19			*	22/8									
ls	sue CE No. 84 - Realignment of Water main in Wan Po Road Between CH.A7+35 -	0 days	Tue 22/6/21	Tue 22/6/21	Calendar Day		231	100%	Tue 22/6/21	Tue 22/6/21							22/6				-		
ls	H.ACH,A8+30 sue CE No. 109 - Manual Excavation under Unexpectedly Long and Continuous	0 days	Mon 22/3/21	Mon 22/3/21	Calendar Day			100%	Mon 22/3/21	Mon 22/3/21						2.	13						
	xtend of UU obstruction in Wan Po Road at CH.A11+80 sue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous	0 days	Tue 12/10/21	Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	Tue 12/10/21	1						12/	/10					
e	xtent of UU obstruction in Wan Po Road at CH. A0+88 endering, Subletting and Award for Trenchless Works (CE No. 84)	99 days	Tue 22/6/21	Tue 19/10/21	HK Working Da	/ 228	232	100%	Tue 22/6/21	Tue 19/10/21	1										-		
					HK Working Da			100%	Wed 20/10/2	1 Mon 21/2/22			_										
S	ubmission and approval of Method Statement of Hand shield for CE No. 84	101 days																					
C	H.A7+12 - CH.A7+30 OC	111 days	Fri 26/2/21	Wed 14/7/21	HK Working Da	/ 223	234		Fri 26/2/21	Wed 14/7/21													
C	H.A7+30 - CH.A7+34 OC	41 days	Thu 15/7/21	Tue 31/8/21	HK Working Da	y 233	235	100%	Thu 15/7/21	Tue 31/8/21							-					X	
C	H.A7+34 - CH.A7+50 OC	80 days	Mon 18/10/21	Fri 21/1/22	HK Working Da	y 234	236,239	100%	Mon 18/10/2	1 Fri 21/1/22													
c	H.A7+50 - CH.A7+58 OC	36 days	Tue 7/12/21	Thu 20/1/22	HK Working Da	y 235	240,237	100%	Tue 7/12/21	Thu 20/1/22							k.	•			-		
C	H.A7+58 - CH.A7+82 OC	43 days	Fri 21/1/22	Tue 15/3/22	HK Working Da	y 236	240,238	100%	Fri 21/1/22	Tue 15/3/22													
	H.A7+82 - CH.A8+23 Trenchless (Mobilization, Setup and Handshield)	85 days	Tue 19/4/22	Sat 30/7/22	HK Working Da	y 237,239	240	35%	Tue 19/4/22	NA						-			-			_	
		74 days	Fri 21/1/22		HK Working Da		238,240	100%	Fri 21/1/22	Mon 25/4/22	,				-								
	H.A8+23 - CH.A8+63 OC						230,240																
(CH.A8+63 - CH.A9+37 OC	100 days	Mon 1/8/22	Mon 28/11/2	2 HK Working Da	y 236,238,237,239		0%	NA	NA													
(CH.A9+37 - CH.A10+18 OC	81 days	Thu 3/3/22	Mon 13/6/22	HK Working Da	Ŷ		60%	Thu 3/3/22	NA													
(CH.A10+18 - CH.A11+51 OC	340 days	Tue 5/1/21	Mon 28/2/22	HK Working Da	У		90%	Tue 5/1/21	NA													
	TH.A11+51 - CH.A12+12 OC with DN600 IT & DN300 Washout Chamber at	263 days	Tue 1/9/20	Fri 23/7/21	HK Working Da	y 244		100%	Tue 1/9/20	Fri 23/7/21						- Olivers							
	CH.A12+00 CH.A12+12 - CH.A12+50 OC With DN900 Valve Chamber	451 days	Sat 23/2/19	Mon 31/8/20	HK Working Da	y 245,246	243	100%	Sat 23/2/19	Mon 31/8/20	D		-										
	CH.A12+50 - CH.A12+95 OC	125 days	Wed 19/9/18	Thu 21/2/19	HK Working Da	у	244	100%	Wed 19/9/18	Thu 21/2/19						-							
		84 days	Fri 9/11/18	Thu 21/2/19	HK Working Da		244		Fri 9/11/18	Thu 21/2/19													(
	CH.A12+95 - CH.A13+13 OC						277																
1	CH.A13+13 - CH.A13+40 OC + DN150 DAV	60 days	Fri 23/12/22	Thu 9/3/23	HK Working Da			0%	NA	NA													
1	CH.A13+40 -CH.A 13+80 OC from Open Cut Trench to Jacking Pit A	60 days	Fri 14/10/22	Thu 22/12/22	HK Working Da	y 280	247,293	0%	NA	NA													
end	hless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working D	ау		56%	Tue 7/11/17	NA	~												
Tri	al Pit Excavation for Pit 1 to Pit 20	462 days	Tue 20/2/18	Tue 10/9/19	HK Working Da	y 79		100%	Tue 20/2/18	Tue 10/9/19													
Tre	enchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24	HK Working D	ау	763	51%	Fri 2/8/19	NA													
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH.	0 days	Fri 2/8/19	Fri 2/8/19	Calendar Day			100%	Fri 2/8/19	Fri 2/8/19			*	2/8									
	A22+75)																						
_	Task Summary	Inactiv	e Milestone	D	uration-only	Start-only	C	External Milestor	ne 👳	Critical	Split	•••••											

		Duri	Pte -t	Einist	Task Calandan In	Project: Mainlaying in Tse	0.	Actual Start	Actual Finish												
		Duration	Start	Finish	Task Calendar Pred	ecessors Successors	Complete	Actual Start	Actual PhilSh	2018		2019	2020		2021	2022		2023	2024 2024		202
	or CE No. 24 Temperate Diversion of Linebasted Hades-seved Hulbing	0 days	Thu 8/8/19	Thu 8/8/19	Calendar Day		100%	Thu 8/8/19	Thu 8/8/19	Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	3 Q4 Q1 8/8	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q	Q4 Q1 C	<u>12 Q3 Q4</u>	Q1
	ue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near an O Road at CH. A16+00 (Pit B)	U days																			_
Iss	ue CE No. 29 - Tree Transplant Works near CHA13+70	0 days	Thu 17/10/19	Thu 17/10/19	Calendar Day		100%	Thu 17/10/19	Thu 17/10/19				17/10								
lss	ue CE No. 32 - Additional grouting Treatment works at Pit B in Wan Po Road nea	ar O days	Mon 31/8/20	Mon 31/8/20	Calendar Day		100%	Mon 31/8/20	Mon 31/8/20					31/8							
Wa	an O Road ue CE No. 118 - Non-destructive Void Detection Survey in TKO Area 137 betwee		Tue 18/5/21	Tue 18/5/21	Calendar Day		100%	Tue 18/5/21	Tue 18/5/21						18/5						-
	TPit A and 137Pit B	en o days													A 7	2017					_
Iss	ue CE No. 123 - Void Detection Survey in Wan Po Road between Pit A to Pit C	0 days	Fri 30/7/21	Fri 30/7/21	Calendar Day		100%	Fri 30/7/21	Fri 30/7/21						* 3	0/7					
Exp	pected CE No. 52 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day	259	0%	NA	NA							4	31/3				
	ad (Pit B to Pit D) pected CE No. 58 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day 258		0%	NA	NA							•	31/3				1
Ro	ad (Pit A to Pit B)								a												-
Co	nstruction of Jacking / Receiving Pit A, B & C	737 days	Mon 12/8/19	Sun 6/2/22	HK Working Day		100%	Mon 12/8/19	Sun 6/2/22							· ·					
	Removal of Existing Planter for Jacking Pit A	6 days	Mon 15/6/20	Sat 20/6/20	HK Working Day	262	100%	Mon 15/6/20	Sat 20/6/20					-							
	Jacking Pit A with additional ground grouting works	462 days	Fri 17/7/20	Sun 6/2/22	HK Working Day 261		100%	Fri 17/7/20	Sun 6/2/22												T
																					-
	Jacking / Receiving Pit B with additional ground grouting works	664 days	Mon 12/8/19	Fri 5/11/21	HK Working Day	299	100%	Mon 12/8/19	Fri 5/11/21												
	Receiving Pit C with additional ground grouting works	295 days	Fri 29/11/19	Thu 26/11/20	HK Working Day		100%	Fri 29/11/19	Thu 26/11/20				C. C								
Ca	nstruction of Jacking pit D	372 days	Wed 12/8/20	Thu 11/11/21	HK Working Day		100%	Wed 12/8/20	Thu 11/11/21					-							1
																					-
	TTA submission and Approval, Suspension of Parking Meters and TTA Implement for Jacking Pit D	ent 112 days	Wed 12/8/20	Tue 1/12/20	Calendar Day	267	100%	Wed 12/8/20	Tue 1/12/20												
	Inspection Pits & GI Works for Jacking Pit D	27 days	Wed 2/12/20	Tue 5/1/21	HK Working Day 266	317,268	100%	Wed 2/12/20	Tue 5/1/21												
	Design Submission with ICE Certificate for Jacking Pit D	26 days	Fri 15/1/21	Wed 17/2/21	HK Working Day 26	269,270	100%	Fri 15/1/21	Wed 17/2/21												1
													-								-
	Approval of Design of Jacking Pit D	8 days	Thu 18/2/21	Fri 26/2/21	HK Working Day 26	271	100%	Thu 18/2/21	Fri 26/2/21												
	Approval Existing Sub-contractor to carry out Construction of Jacking Pit D	0 days	Fri 26/3/21	Fri 26/3/21	HK Working Day 26	271	100%	Fri 26/3/21	Fri 26/3/21						26/3						
	Mobilization and Pipe Pile Wall Construction for Jacking Pit D	78 days	Thu 1/4/21	Fri 9/7/21	HK Working Day 27	,269 272	100%	Thu 1/4/21	Fri 9/7/21												
							10000	5 . 40/7/24	Th. 44/44/24												+
	Construction of Jacking Pit D at Car Park	104 days	Sat 10/7/21	Thu 11/11/21	HK Working Day 27	. 303	100%	Sat 10/7/21	Thu 11/11/21												
N	ew Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Day		0%	Thu 14/4/22	NA								Ça				
	Verbal Instructed to Change Pit A to Pit D by Trenchless Method to Open Cut	1 day	Thu 14/4/22	Thu 14/4/22	HK Working Day	275	100%	Thu 14/4/22	Thu 14/4/22								1				-
	Method & Handshield					270 270 200	001														+
	XP Application for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Day 27	278,279,286	0%	NA	NA												
	Trial Pit Excavation at Pit A1	3 days	Sat 14/5/22	Tue 17/5/22	HK Working Day		100%	Sat 14/5/22	Tue 17/5/22												
	Remove Central Divider between Wan O Road amd Shek Kok Road	81 days	Mon 16/5/22	Fri 19/8/22	HK Working Day		0%	Mon 16/5/22	NA												T
							001														+
	Trial Pit Excavation at Pit WPR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 27	5 287	0%	NA	NA												
	Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 27	288,285,284	0%	NA	NA												
	Pipe Laying (OC) from Pit A1 towward KLN (124m)	124 days	Tue 17/5/22	Thu 13/10/22	HK Working Day	281,248	0%	Tue 17/5/22	NA												
		CD 1	5-14/10/22	Thu 22/12/22	UK Wasking Day 29	282	0%	NA	NA												-
	Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m)	60 days	Fri 14/10/22	Thu 22/12/22	HK Working Day 28	202	078	NA	NA .												
	Pipe Laying (OC) crossing WPR Junction with Wan O Road to Central Divider	90 days	Fri 23/12/22	Tue 18/4/23	HK Working Day 28	L	0%	NA	NA												
	(73m) Pipe Laying (OC) along Central Divider to Pit WPR (340m)	340 days	Fri 20/5/22	Wed 12/7/23	HK Working Day	295,287	0%	Fri 20/5/22	NA												
					HK Working Day 27	288	0%	NA	NA												-
	Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	The WORKING Day 27		076	10													_
	Pipe Laying (OC) from Pit SKR to Pit D (Remaining 110m)	110 days	Thu 14/7/22	Tue 22/11/22	HK Working Day 27	297	0%	NA	NA												
	Construction of Pit A1	90 days	Sat 2/7/22	Tue 18/10/22	HK Working Day 27	5 289	0%	NA	NA												T
							0%	NA	NA												
	Construction of Pit WPR	90 days	Thu 13/7/23	Sat 28/10/23	HK Working Day 27	0,203	0%	ne -													
	Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Day 27	9,284 290	0%	NA	NA												
	Headshield Tunneling fom Pit A to Pit A1 (102m)	170 days	Wed 19/10/2	2 Wed 17/5/23	HK Working Day 28	6 291	0%	NA	NA												
							0%	NA	NA												-
	Headshield Tunneling fom Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	The HOLKING Day 20																-
	MS Pipe Laying in Segment from Pit A to Pit A1	40 days	Thu 18/5/23	Mon 26/6/23	Calendar Day 28	9 293,294	0%	NA	NA									-			
	MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	3 Mon 11/12/2	3 Calendar Day 29	0 295,296	0%	NA	NA												
							0%	NA	NA												+
	Pipe Connection works & Construction Special Combined Insepction and Washout Chamber at Pit A	60 days	Tue 27/6/23	Tue 5/9/23	HK Working Day 29	1,270															
	Pipe Connection works at Pit A1	12 days	Tue 27/6/23	Tue 11/7/23	HK Working Day 29	1	0%	NA	NA												
								- k			l contraction de la c	1		. <u>.</u>							
mn	ne No. 15 Task Summary		tive Milestone		function-only	Start-only C Finish-only	External Milesto Deadline	ne 💿	Critical S Progress												
	2022 Split Project Summary	I Inaci	tive Summary	N	Ianual Summary Rollup	1 man-omy	1.caumic		FIORICSS	-											

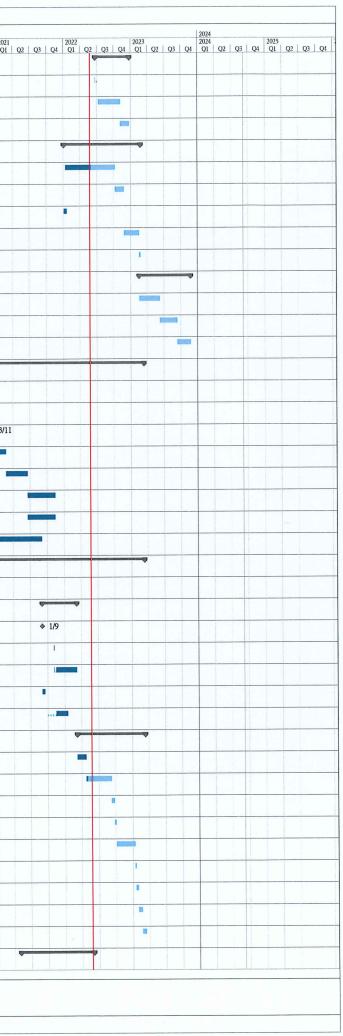
Task N		Duration	Start	Finish	Task Calendar Predecessors	Successors		Actual Start								
Task Is	ame						Complete			201		20	19	3 01	2020	2 Q3 Q4 2
5	Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day 292,283		0%	NA	NA		<u> Q2 Q5</u>	Q1 Q	1 Q2 0	<u>, vi</u>	Q1 Q2	Q1
6	Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day 292		0%	NA	NA							-
17	· Pipe Connection Works and construction of Washout Chamber at Pit D	60 days	Wed 23/11/22	Tue 7/2/23	HK Working Day 285		0%	NA	NA			-				
8	TBM Pipe Jacking (Pit B to Pit C)	157 days	Mon 8/11/21	Mon 23/5/22	HK Working Day		100%	Mon 8/11/21	Mon 23/5/22							
9	Establishment at Pit B with additional ground treatment for stopping water	112 days	Mon 8/11/21	Thu 24/3/22	HK Working Day 263	300	100%	Mon 8/11/21	Thu 24/3/22							
	ingress Jacking DN1600 Precast Concrete Sleeve Pipe From Pit B to Pit C (L=326m;	30 days	Thu 24/3/22	Wed 4/5/22	HK Working Day 299	301	100%	Thu 24/3/22	Wed 4/5/22							
	2.5m/day) Extracting TBM and remove TBM from Pit B	15 days	Thu 5/5/22	Mon 23/5/22	HK Working Day 300		100%	Thu 5/5/22	Mon 23/5/22							
2	TBM Pipe Jacking (Pit D to Pit C)	98 days	Mon 22/11/21	Wed 23/3/22	HK Working Day		100%	Mon 22/11/21	Wed 23/3/22							
3		47 days	Mon 22/11/21		HK Working Day 272	304	100%	Mon 22/11/21	Tue 18/1/22							
	Establishment at Pit D					504										
4	DN1920 Steel Jacked Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (370m 2.5m/day)	; 51 days	Wed 19/1/22	Tue 22/3/22	HK Working Day 303		100%	Wed 19/1/22								
15 16	Pipe Jacking stopped on 23/3/2022 Form Pit D Crossing Wan Po Road and Lohas Park Road to TKO Landfill Stage I (Area	0 days 2046 days	Wed 23/3/22 Tue 7/11/17	Wed 23/3/22 Wed 14/6/23	HK Working Day Calendar Day	763	100% 55%	Wed 23/3/22 Tue 7/11/17			Intelligitation in the local data	_		_		
17	A)	0 days	Fri 27/9/19	Fri 27/9/19	Calendar Day	309	100%	Fri 27/9/19	Fri 27/9/19					27/9	,	
	across MT Tunnel						100%		Tue 3/11/20				_			
18	Issue CE No. 80 - Site Clearance for Crossing Lohas Road Junction (Option 5)	0 days	Tue 3/11/20	Tue 3/11/20	Calendar Day											
09	Tender & Subletting	71 days	Fri 27/9/19	Fri 6/12/19	Calendar Day 307		100%	Fri 27/9/19	Fri 6/12/19							
10	Mobilization and Establishment of GI equipment	7 days	Mon 17/2/20	Mon 24/2/20	HK Working Day	311	100%	Mon 17/2/20	Mon 24/2/20						1	
11	Ground Investigation GI No. 3	33 days	Tue 25/2/20	Thu 2/4/20	HK Working Day 310		100%	Tue 25/2/20	Thu 2/4/20						-	
12	Issue CE No. 77 - Design of Water Main Structure and Modification Works to the	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day	313,314,315	100%	Wed 21/10/20	Wed 21/10/20							21/
13	Affected Geotechnical Features in Wan Po Road and Lohas Park Road Quotation Submission and Acceptant for CE No. 77	72 days	Wed 21/10/20	Thu 31/12/20	Calendar Day 312		100%	Wed 21/10/20	Thu 31/12/20							-
14	CE No. 77 - Submission of Geotechnical Assessment Repot	42 days	Wed 21/10/20	Tue 1/12/20	Calendar Day 312		100%	Wed 21/10/20	Tue 1/12/20							
15	CE No. 77 - Design Submission	72 days	Wed 21/10/20	Thu 31/12/20	Calendar Day 312	316,317	100%	Wed 21/10/20	Thu 31/12/20	-		1		-		
			Fri 3/9/21	Fri 3/9/21	Calendar Day 315		100%	Fri 3/9/21	Fri 3/9/21							
516	CE No. 77 - Approval of Design Submission	0 days				210										
317	Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park Road	0 days	Wed 11/8/21	Wed 11/8/21	Calendar Day 267,315	319	100%	Wed 11/8/21								
818	Obtain MTR's approval on the alignment and construction method about MTR's tunnels	91 days	Mon 13/12/21	Mon 14/3/22	Calendar Day 320FF	348,347	100%	Mon 13/12/21	Mon 14/3/22	-						
19	Tender Process and Tender Award for CE No. 67	77 days	Wed 11/8/21	Tue 26/10/21	Calendar Day 317	320,363	100%	Wed 11/8/21	Tue 26/10/21							
320	TTA approval and Implement for CE No. 67	125 days	Wed 27/10/21	Mon 28/2/22	Calendar Day 319	348,318FF,347	100%	Wed 27/10/21	Mon 28/2/22							
. 21	Handshield Crossing Wan Po Road (CH.FA0+15 to CH.FA0+50)	1484 days	Tue 7/11/17	Thu 10/11/22	HK Working Day		48%	Tue 7/11/17	NA	-						
322	Issue CE No. 98 - Tree Felling at Lohas Park Road	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day	323	100%	Mon 18/1/21	Mon 18/1/21							
323	TPRP Submission and Approval for Tree at Slope Feature 12SW-A/FR102	121 days	Mon 18/1/21	Tue 18/5/21	Calendar Day 322	324	100%	Mon 18/1/21	Tue 18/5/21							
324	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	7 days	Mon 21/6/21	Mon 28/6/21	HK Working Day 323		100%	Mon 21/6/21	Mon 28/6/21	+			_			
325	Approval TTA for Loading and Unloading at R27	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day	326	0%	NA	NA							
							0%	NA	NA	-				E		
326	Strengthen Works at Feature 12SW-A/R27	80 days	Wed 1/6/22	Sat 3/9/22	HK Working Day 325											
327	Strengthen Works at Feature 12SW-A/R28	98 days	Tue 14/12/21	Thu 14/4/22	HK Working Day	329	100%	Tue 14/12/21								
328	Concrete coring and breaking opening on Retaining Wall (R27)	1 day	Tue 7/11/17	Tue 7/11/17	None	335	0%	NA	NA							
329	Concrete coring and breaking opening on Retaining Wall (R28)	30 days	Wed 27/4/22	Thu 2/6/22	HK Working Day 327	330	3%	Wed 27/4/22	NA							
330	Handshield Establishment	14 days	Sat 4/6/22	Mon 20/6/22	HK Working Day 329	331	0%	NA	NA							
331	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.6m/day)	58 days	Tue 21/6/22	Sat 27/8/22	HK Working Day 330	332	0%	NA	NA							
332	Remove establishment	6 days	Mon 29/8/22	Sat 3/9/22	HK Working Day 331	333	0%	NA	NA							
333		6 days	Mon 5/9/22	Sat 10/9/22	HK Working Day 332	334	0%	NA	NA							
	Setup for Pipe Laying inside jacking					335	0%	NA	NA							
334	DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	15 days	Tue 13/9/22	Thu 29/9/22	HK Working Day 333											
335	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days	Fri 30/9/22	Sat 8/10/22	HK Working Day 334,328	336	0%	NA	NA							
336	Grouting Works (30 meter/day)	4 days	Mon 10/10/2	2 Thu 13/10/22	HK Working Day 335	337	0%	NA	NA							
337	Pipe laying Works From Pit D to CH.FA0+15	24 days	Fri 14/10/22	Thu 10/11/22	HK Working Day 336	339	0%	NA	NA							
			Miles		eties cale	E s	External Mileste	one 🐡	Critical Spl							
Marking	Programme No. 15 Task Summary Project Summary		ve Milestone ve Summary		ration-only Start-only Start-only		External Milesto Deadline	one 👳	Critical Spl Progress							



	Duration	Start	Finish	Task Calendar Predecessors	Project: Mainlaying in Ta Successors	%	Actual Start	Actual Finish		1							10034	
	Durauon	otat	1 milli	11000000010	ouccostla	Complete			2018 Q4 Q1 Q2 Q3	2019 2019	202		2021	03 01 01	$\frac{2}{102}$	2023	03 04 01	02 03 04
ertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA0+50 to	173 days	Fri 11/11/22	Wed 14/6/23	HK Working Day		0%	NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q		24 QI Q2	<u>Q3</u> Q4 Q1	<u> </u>		<u>Q3</u> Q4 Q1	Q2 Q3 Q4
H.FA0+85)	30 days	Fri 11/11/22	Thu 15/12/22	HK Working Day 337	340	0%	NA	NA										
Vertical pipes with Concrete Surround					341	0%	NA	NA										
Exposed pipes with concrete surround	30 days	Fri 16/12/22	Thu 26/1/23	HK Working Day 339	541													
Open cut pipe laying with concrete surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359,340		0%	NA	NA										
and Shield Pipe Jacking crossing Lohas Park Road	289 days	Thu 19/5/22	Tue 9/5/23	HK Working Day		0%	Thu 19/5/22	NA										
MTR's Consent for Construction of Pit E	0 days	Thu 19/5/22	Thu 19/5/22	HK Working Day	347	100%	Thu 19/5/22	Thu 19/5/22							19/5			
MTR's Consent for Construction of Pit F	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day	348	99%	Wed 1/6/22	NA							♦ 1/6			
MTR's Consent for Construction of Pit G	0 days	Mon 6/6/22	Mon 6/6/22	HK Working Day	349	99%	Mon 6/6/22	NA							♦ 6/6			
Loading & Unloading TTA for Pit G	0 days	Mon 13/6/22	Mon 13/6/22	HK Working Day	349	99%	Mon 13/6/22	NA						-	13/6			
Construction of Receiving Pit E	45 days	Mon 23/5/22	Fri 15/7/22	HK Working Day 318,320,343		0%	Mon 23/5/22	NA										
	45 days	Wed 1/6/22	Mon 25/7/22	HK Working Day 320,318,344	350	0%	NA	NA										
Construction of Jacking Pit F						0%	NA	NA							1			
Construction of Receiving Pit G	45 days	Mon 13/6/22		HK Working Day 345,346														
Establishment at Pit F	14 days	Tue 26/7/22	Wed 10/8/22	HK Working Day 348	351	0%	NA	NA										
Mild Steel Sleeve Pipe (Pit F - Pit E) in Soil Mix (40m; 0.4m/day)	100 days	Thu 11/8/22	Thu 8/12/22	HK Working Day 350	352	0%	NA	NA										
Mild Steel Sleeve Pipe (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	50 days	Fri 9/12/22	Sat 11/2/23	HK Working Day 351	353	0%	NA	NA										
Remove setup Including Thrust Wall at Pit F	6 days	Mon 13/2/23	Sat 18/2/23	HK Working Day 352	354	0%	NA	NA					a-			1		
Setup for Pipe Laying inside jacking Pit F	6 days	Mon 20/2/23	Sat 25/2/23	HK Working Day 353	355	0%	NA	NA								1		
DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	Mon 27/2/23	Sat 1/4/23	HK Working Day 354	356	0%	NA	NA										
Modify Setup for Pipe Laying inside jacking Pit F	6 days	Mon 3/4/23	Thu 13/4/23	HK Working Day 355	357	0%	NA	NA								1		
	15 days	Fri 14/4/23	Tue 2/5/23	HK Working Day 356	358	0%	NA	NA										
DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)							NA	NA										
Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Wed 3/5/23	Fri 5/5/23	HK Working Day 357	359	0%										1		
Grouting Works (30 meter/day)	3 days	Sat 6/5/23	Tue 9/5/23	HK Working Day 358	341,361	0%	NA	NA										
ertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA1+50 to H.FA2+17)	1657 days	Tue 7/11/17	Wed 14/6/23	HK Working Day		59%	Tue 7/11/17	NA										
Vertical pipes with Concrete Surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359		0%	NA	NA										
Exposed pipes with concrete surround	60 days	Tue 15/2/22	Fri 29/4/22	HK Working Day 366		0%	NA	NA										
Site Clearance at Storage Yard	3 days	Mon 1/11/21	Wed 3/11/21	HK Working Day 319	366	100%	Mon 1/11/21	Wed 3/11/21						I.				
Plate Load Tests for Tower P2	34 days	Tue 9/11/21	Fri 17/12/21	HK Working Day		100%	Tue 9/11/21	Fri 17/12/21										
Construction footing of Tower P2 at CH.FA1+76	72 days	Sat 18/12/21	Fri 18/3/22	HK Working Day		100%	Sat 18/12/21	Fri 18/3/22										
Open cut pipe laying with concrete surround (CH.FA1+76 to CH.FA2+04)	82 days	Thu 4/11/21		HK Working Day 363	362	100%	Thu 4/11/21	Mon 14/2/22										
				7 HK Working Day		0%	NA	NA										
Open cut pipe laying from CH.FA2+04 to CH.F80+03 & Connect to DN900SV Chamber	42 days	Tue 7/11/17														1		
Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO Waterfront Promenade				HK Working Day			Thu 23/8/18											
ue CE No. 05 - Feasibility Studey Realignment of pipline at Tseung Kwan O Stage Idfill	I O days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18	•	23/8								
ue CE No. 36 - Realignment of Watermain along the Bituminous Road adjacent to nas Park Road	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day		100%	Fri 22/5/20	Fri 22/5/20				22/5						
nas Park Koad ue CE No. 34 - Realignment of Watermain along TKO Stage I Landfill	0 days	Tue 5/11/19	Tue 5/11/19	Calendar Day		100%	Tue 5/11/19	Tue 5/11/19			5/1							
O Landfill Stage I Area A (CH.FB0+00 to CH.FB5+34)	712 days	Fri 15/5/20	Fri 7/10/22	HK Working Day	764	85%	Fri 15/5/20	NA				~						
CH.FB0+00 DN300 Washout Chamber	60 days	Tue 7/12/21	Mon 21/2/22	HK Working Day 374	and the second secon	0%	NA	NA										
CH.FB0+00 - CH.FB 1+66 OC with DN900 Valve Chamber with DN150 by-pass	372 days	Sat 5/9/20	Mon 6/12/21	HK Working Day	373	100%	Sat 5/9/20	Mon 6/12/21										
	379 days		Sat 21/8/21			100%	Fri 15/5/20	Sat 21/8/21										
CH.FB1+66 - CH.FB 5+39 OC					201		Mon 12/4/21											
CH.FB5+34 - CH.FC 0+00 OC	101 days			HK Working Day 394	381													
CH.FB 5+34 DN300 DN600 IT Chamber	30 days	Tue 21/6/22	Tue 26/7/22	HK Working Day 411	378	0%	NA	NA										
CH.FB 5+34 DN300 Washout Chamber	60 days	Wed 27/7/22	2 Fri 7/10/22	HK Working Day 377		0%	NA	NA										
O South Waterfront Promenade (CH.FC0+00 - CH.FC 4+87)	443 days	Wed 26/2/20	D Tue 24/8/21	HK Working Day		100%	Wed 26/2/20	Tue 24/8/21				Q						
	ayaan di baalaan ahaan ah				_		-		-12	1								
Task Summary	Inac	tive Milestone	Ľ	Juration-only Start	t-only C	External Milest	one 👳	Critical S Progress	plit									

Name	, · · · · · · · · · · · · · · · · · · ·	Duration	Start	Finish	Task Calendar	Predecessors	Successors	%	Actual Start	Actual Finish		2010		2024	
ame								Complete			2018	2019 2019 3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q	2022 01 02 03 04 01 02	2024 2024 Q3 Q4 Q1 Q2 Q3 Q4	2025 Q4 Q1 Q
	CH.FC 0+00 - CH.FC 0+29 OC	38 days	Mon 12/7/21	Tue 24/8/21	HK Working Da	y 381		100%	Mon 12/7/21	Tue 24/8/21	Q4 Q1 Q2			x x x x x x x x x x x x x x x x x x x	toon to a thin a too to
	CH.FC 0+29 - CH.FC 0+65 OC	56 days	Sat 19/6/21	Tue 24/8/21	HK Working Da	y 382,376	380	100%	Sat 19/6/21	Tue 24/8/21					
			Wed 26/2/20	Mon 6/4/20	HK Working Da		383,381	100%	Wed 26/2/20	Mon 6/4/20					
	CH.FC 0+65 - CH.FC 0+95 OC	34 days													
	CH.FC 0+95 - CH.FC 1+27 OC	30 days	Mon 6/4/20	Fri 15/5/20	HK Working Da	y 382	384	100%	Mon 6/4/20	Fri 15/5/20					
	CH.FC 1+27 - CH.FC 1+59 OC	31 days	Fri 15/5/20	Fri 19/6/20	HK Working Da	y 383	385	100%	Fri 15/5/20	Fri 19/6/20					
	CH.FC 1+59 - CH.FC 1+91 OC	21 days	Fri 19/6/20	Wed 15/7/20	HK Working Da	y 384	386	100%	Fri 19/6/20	Wed 15/7/20					
	CH.FC 1+91 - CH.FC 2+23 OC	29 days	Wed 15/7/20	Mon 17/8/20	HK Working Da	y 385	387	100%	Wed 15/7/20	Mon 17/8/20					
		25 days	Mon 17/8/20	Mon 14/9/20	HK Working Da	v 386	388	100%	Mon 17/8/20	Mon 14/9/20					
	CH.FC 2+55 - CH.FC 2+87 OC	38 days	Mon 14/9/20	Fri 30/10/20	HK Working Da	y 387	389	100%	Mon 14/9/20						
	CH.FC 2+87 - CH.FC 3+19 OC	24 days	Fri 30/10/20	Thu 26/11/20	HK Working Da	y 388	390	100%	Fri 30/10/20	Thu 26/11/20					
	CH.FC 3+19 - CH.FC 3+51 OC	20 days	Thu 26/11/20	Fri 18/12/20	HK Working Da	y 389	391	100%	Thu 26/11/20	Fri 18/12/20					
	CH.FC 3+51 - CH.FC 3+83 OC	30 days	Fri 18/12/20	Mon 25/1/21	HK Working Da	y 390	392	100%	Fri 18/12/20	Mon 25/1/21		•			
		24 days	Mon 25/1/21	Wed 24/2/21	HK Working Da	y 391	393	100%	Mon 25/1/21	Wed 24/2/21					
							394		Wed 24/2/21						
		17 days		Mon 15/3/21											
	CH.FC 4+47 - CH.FC 4+89 C	21 days	Mon 15/3/21	Mon 12/4/21	HK Working Da	y 393	376	100%	Mon 15/3/21	Mon 12/4/21					
т	TKO South Waterfront Promenade (CH.FC4+87 - CH.FC 8+71)	458 days	Tue 24/3/20	Sat 9/10/21	HK Working Da	ау		100%	Tue 24/3/20	Sat 9/10/21					
	CH.FC 4+89 - CH.FC 5+19 OC with DN600 IT	72 days	Tue 24/3/20	Mon 22/6/20	HK Working Da	ıγ	397	100%	Tue 24/3/20	Mon 22/6/20					
	CH.FC 5+19 - CH.FC 5+51 OC	29 days	Mon 22/6/20	Mon 27/7/20	HK Working Da	y 396	398	100%	Mon 22/6/20	Mon 27/7/20					
		32 days	Mon 27/7/20	Tue 1/9/20	HK Working Da	v 397	399	100%	Mon 27/7/20	Tue 1/9/20					
							400		Tue 1/9/20	Mon 5/10/20					
	CH.FC 5+83 - CH.FC 6+15 OC	28 days	Tue 1/9/20	Mon 5/10/20											
	CH.FC 6+15 - CH.FC 6+47 OC	27 days	Mon 5/10/20	Thu 5/11/20	HK Working Da	iy 399	401	100%	Mon 5/10/20	Thu 5/11/20					
	CH.FC 6+47 - CH.FC 6+79 OC	25 days	Thu 5/11/20	Thu 3/12/20	HK Working Da	ay 400	402	100%	Thu 5/11/20	Thu 3/12/20					
	CH.FC 6+79 - CH.FC 7+11 OC	29 days	Thu 3/12/20	Fri 8/1/21	HK Working Da	ay 401	403	100%	Thu 3/12/20	Fri 8/1/21					
	CH.FC 7+11 - CH.FC 7+43 OC	19 days	Fri 8/1/21	Fri 29/1/21	HK Working Da	ay 402	404	100%	Fri 8/1/21	Fri 29/1/21					
	CH.FC 7+43 - CH.FC 7+75 OC	25 days	Sat 30/1/21	Wed 3/3/21	HK Working Da	av 403	405	100%	Sat 30/1/21	Wed 3/3/21					
							406		Wed 3/3/21						
	CH.FC 7+75 - CH.FC 8+07 OC	22 days	Wed 3/3/21	Sat 27/3/21	HK Working Da										
	CH.FC 8+07 - CH.FC 8+39 OC	40 days	Sat 27/3/21	Tue 18/5/21	HK Working Da	ay 405	407	100%	Sat 27/3/21	Tue 18/5/21					
	CH.FC 8+39 - CH.FC 8+43 OC	116 days	Mon 24/5/21	Sat 9/10/21	HK Working Da	ay 406		100%	Mon 24/5/21	Sat 9/10/21					
	CH.FC 8+43 - CH.FC 8+59 OC	39 days	Tue 24/8/21	Sat 9/10/21	HK Working D	ау	411	100%	Tue 24/8/21	Sat 9/10/21					
	TKO Landfill Stage I Area B (CH.FC 8+59 - CH.FC 13+26)	677 days	Tue 14/4/20	Tue 26/7/22	HK Working D	ау		89%	Tue 14/4/20	NA					
		30 days	Tue 21/6/22	Tue 26/7/22	HK Working D	av 411		0%	NA	NA					
	Construct DN150 DAV Chamber at CH.FC 9+83						400 277 410		Fri 15/10/21						
	CH.FC 8+59 - CH.FC 9+83 OC	200 days	Fri 15/10/21		2 HK Working D		423,377,410	80%							
	CH.FC 9+83 - CH.FC 13+26 OC with Monitoring Chamber	402 days	Tue 14/4/20	Thu 19/8/21	HK Working D	ау	411	100%	Tue 14/4/20	Thu 19/8/21					
W	Nater Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)	1020 days	s Wed 17/6/20	Thu 23/11/2	3 HK Working D	ау		60%	Wed 17/6/20	NA					
	Issue CE No. 65 - Landscaping Survey near Po Yap and Pung Loi Road	0 days	Wed 17/6/20	Wed 17/6/20	0 Calendar Day			100%	Wed 17/6/20	Wed 17/6/20		17/6			
	Issue CE No. 87 - Affected Trees near Pung Loi Road, Po Yap Road and Wan Po Road	0 days	Tue 22/12/20	Tue 22/12/20	0 Calendar Day		416	100%	Tue 22/12/20	Tue 22/12/20		◆ 22/12			
		304 days			1 Calendar Day	415.614	417	100%	Tue 22/12/20	Thu 21/10/21					
	TPRP Submission and Approval								Fri 22/10/21						
	Site Possession and Tree Removal Works	21 days	Fri 22/10/21		1 Calendar Day	410	427								
	Issue CE No. 60 - Realignment of Water Main near Pung Loi Road	0 days	Thu 27/5/21	Thu 27/5/21	Calendar Day		419,421	100%	Thu 27/5/21	Thu 27/5/21		* 27/5			
	Tender Process and Tender Award for CE No. 60	169 days	Thu 27/5/21	Thu 11/11/2	1 Calendar Day	418	420	100%	Thu 27/5/21	Thu 11/11/21					
	Design & Method Statement Submission and Approval ; Preparation Works for CE No	o. 90 days	Sun 7/11/21	Fri 4/2/22	Calendar Day	419	424	100%	Sun 7/11/21	Fri 4/2/22					
	60 TTA preparation, SLG meetings and obtain RA	188 days	Thu 27/5/21	Tue 30/11/2	1 Calendar Day	418	427,429	100%	Thu 27/5/21	Tue 30/11/21					
	· · · · · · · · · · · · · · · · · · ·	,-													
	rearma No. 15 Task Summary		tive Milestone		Duration-only	Star		External Milest		Critical S	plit				
ושטי	gramme No. 15 Split Project Summary Project Summary] Inac	tive Summary	1 1	Manual Summary Rollup	Fini	sh-only 🛄	Deadline	+	Progress					

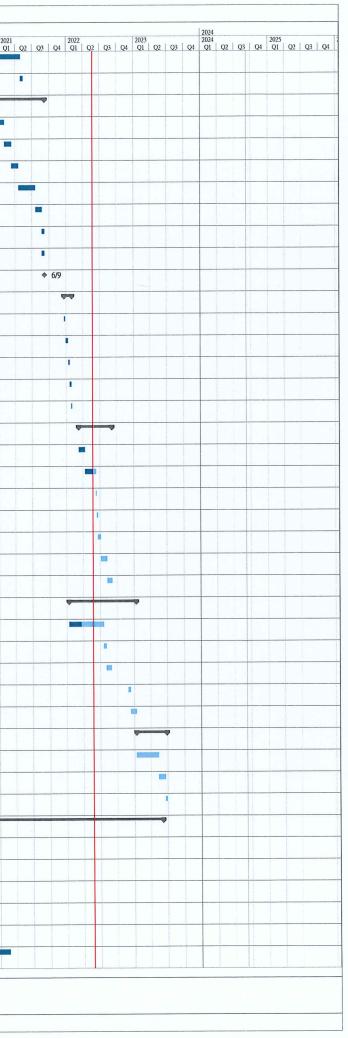
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ask N	ane	Duration	Start	Finish	Task Calendar Predecessors	Successors	Complete	Actual Start	Actual Finish	2018	2		2019 2019		2020	
		100 1	20/5/22	F.: 22/42/22	III Marking Day		0%	NA	NA	Q4 Q1	Q2 (Q3 Q4	Q1 Q2	Q3 (24 Q1	Q2 C
	Open Trench Crossing Pung Loi Avenue	156 days	Mon 20/6/22	Fri 23/12/22	HK Working Day		076	NA	NA							
	Obtain Access from EPD (TKO Landfill Stage I Area B)	14 days	Mon 20/6/22	Thu 7/7/22	HK Working Day 411	424	0%	NA	NA							
	CH,FD0+00 - CH.FD0+65 OC	100 days	Fri 8/7/22	Fri 4/11/22	HK Working Day 420,423	425	0%	NA	NA							
		42 dava	Sat 5/11/22	Fri 23/12/22	HK Working Day 424		0%	NA	NA							
	Construction DN900 SV Chamber at CH.FD0+25	42 days	Sat 5/11/22	FII 23/12/22	HK Working Day 424		078									
	Exposed Pipe From CH.FDD0+65 to FDSKR+00	337 days	Mon 3/1/22	Wed 22/2/23	HK Working Day		36%	Mon 3/1/22	NA							
	Excavation In Slope Toe; Construction of Flooding Protecxtion Wall with	216 days	Wed 12/1/22	Thu 6/10/22	HK Working Day 421,417	428	50%	Wed 12/1/22	NA							
	U-Channel, Length = 135m, @12m @18days	42 days	Fri 7/10/22	Thu 24/11/22	HK Working Day 427	430	0%	NA	NA	-						
	Exposed Pipe, Length = 173m, with concrete saddle Supports															
	3 nos. Trial Pit Exacavtion under existing Flyover	14 days	Mon 3/1/22	Tue 18/1/22	HK Working Day 421		100%	Mon 3/1/22	Tue 18/1/22							
	DN1200 Pipe Laying on Concrete Support with Concrete Hunching	65 days	Fri 25/11/22	Wed 15/2/23	HK Working Day 428	431,433	0%	NA	NA							
	Apply top coating of aliphatic polyurethane on site	6 days	Thu 16/2/23	Wed 22/2/23	HK Working Day 430	435	0%	NA	NA							
							01/	810	010			_			_	-
	Open Trench Connecting Trenchless and Exposed Pipe	230 days	Thu 16/2/23	Thu 23/11/23	HK Working Day		0%	NA	NA							
	CH.FSKR+00 to CH.FD3+15 OC	90 days	Thu 16/2/23	Wed 7/6/23	HK Working Day 430	435,434	0%	NA	NA							
	CH.FDD3+15 to CH.FDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and	80 days	Thu 8/6/23	Mon 11/9/23	HK Working Day 433	435,764,765	0%	NA	NA			-				
	Connection to Pit WPR1	CO davia	Tue 12/0/22	Thu 23/11/23	HK Working Day 433,434,431		0%	NA	NA			_				
	Make Good Slope Toe and Landscape Work	60 days	Tue 12/9/23	Thu 23/11/25			078	NO.	114							
	Water Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	758 days	Thu 20/8/20	Sat 11/3/23	HK Working Day	765	78%	Thu 20/8/20	NA							
	Trial Pit at Working Pit WPR1	36 days	Thu 20/8/20	Wed 30/9/20	HK Working Day		100%	Thu 20/8/20	Wed 30/9/20							
	T : Lot I We lite - Dir C1A	12 days	Sun 1/11/20	Sat 14/11/20	HK Working Day		100%	Sun 1/11/20	Sat 14/11/20	-						
	Trial Pit at Working Pit G1A														_	
	Issue CE No. 59 - Realignment of Water Main near Pung Loi Road and Po Yap Round Roundabout	0 days	Fri 13/11/20	Fri 13/11/20	Calendar Day	440,444	100%	Fri 13/11/20	Fri 13/11/20							
	Tender Process and Tender Award for CE No. 59	99 days	Fri 13/11/20	Fri 19/2/21	Calendar Day 439	441	100%	Fri 13/11/20	Fri 19/2/21							
	Design & Method Statement Submission and Approval ; Preparation Works for Pit J1.	A 93 days	Sat 20/2/21	Wed 16/6/21	HK Working Day 440	465,442,443	100%	Sat 20/2/21	Wed 16/6/21					4		
													-			
	Design & Method Statement Submission and Approval ; Preparation Works for Pit G1A	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441	452	100%	Thu 17/6/21	Sat 13/11/21							
	Design & Method Statement Submission and Approval ; Preparation Works for Pit	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441	450	100%	Thu 17/6/21	Sat 13/11/21							
	WPR1 TTA preparation, SLG meetings and obtain RA	293 days	Fri 13/11/20	Wed 1/9/21	Calendar Day 439	448	100%	Fri 13/11/20	Wed 1/9/21					-		
							509/	r-: 0/10/20	NA			_				
	Trenchless Crossing MTR Tunnels (Pit WPR1 to Pit G1A)	717 days	Fri 9/10/20	Sat 11/3/23	HK Working Day		50%	Fri 9/10/20	NA							
	Inspection Pit at Location of Pit G1A	19 days	Fri 9/10/20	Sun 1/11/20	HK Working Day		100%	Fri 9/10/20	Sun 1/11/20							
	Construction of Jacking Pit / Receiving Pit (TBM)	151 days	Wed 1/9/21	Sat 5/3/22	HK Working Day		100%	Wed 1/9/21	Sat 5/3/22							
	Obtain consent for vehicular access construction for WPR1	0 days	Wed 1/9/21	Wed 1/9/21	HK Working Day 444		100%	Wed 1/9/21	Wed 1/9/21							
	Obtain consent for venicular access construction for WFR1	U days														
	Tree Truning at WPR1	2 days	Wed 3/11/21	Thu 4/11/21	HK Working Day	450	100%	Wed 3/11/21	Thu 4/11/21							
	Jacking Pit WPR1 (Near Pung Loi Road)	91.2 days	Fri 5/11/21	Sat 5/3/22	HK Working Day 449,443	454	100%	Fri 5/11/21	Sat 5/3/22					4		
	Planter Removal and Access Formation to pit G1A	13 days	Wed 1/9/21	Wed 15/9/21	HK Working Day	452	100%	Wed 1/9/21	Wed 15/9/21		_	_				
	Receiving Pit G1A (Near Po Yap Road)	91 days	Mon 27/9/21	Sat 15/1/22	HK Working Day 451,442	470,454	100%	Mon 27/9/21	Sat 15/1/22							
	TBM Pipe Jacking (WPR1 to J1A)	301 days	Mon 7/3/22	Sat 11/3/23	HK Working Day		14%	Mon 7/3/22	NA							
	TBM Establishment at Pit WPR1	38 days	Mon 7/3/22	Sat 23/4/22	HK Working Day 450,452	455	100%	Mon 7/3/22	Sat 23/4/22							
			Sun 24/4/22	Tue 6/0/22	HK Working Day 454	456	5%	Sun 24/4/22	NA							
	Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 2.0m/day)	112 days	Sun 24/4/22	Tue 6/9/22		450	578	Juli 24/4/22								
	Remove setup including Thrust Wall at Pit WPR1	14 days	Wed 7/9/22	Fri 23/9/22	HK Working Day 455	457	0%	NA	NA							
	Setup for Pipe Laying inside Jacking Pit WPR1	6 days	Sat 24/9/22	Fri 30/9/22	HK Working Day 456	458	0%	NA	NA							
		84 days	Mon 3/10/22	Thu 12/1/23	HK Working Day 457	459	0%	NA	NA							
	DN1200 MS Pipe Laying inside Jacking Pipe (224m) (3 days per 8m)															
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Fri 13/1/23	Mon 16/1/23	HK Working Day 458	460	0%	NA	NA							
	Grouting Works (30m per day)	8 days	Tue 17/1/23	Sat 28/1/23	HK Working Day 459	461	0%	NA	NA							
	Pipe Connection inside Working Pit WPR1	18 days	Mon 30/1/23	Sat 18/2/23	HK Working Day 460	462	0%	NA	NA							
	Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days	Mon 20/2/23	8 Sat 11/3/23	HK Working Day 461		0%	NA	NA							
	Trenchless Works (Pit G1A or Pit J1A)	320 days	Mon 3/5/21	Tue 31/5/22	HK Working Day		97%	Mon 3/5/21	NA							
ing l	Programme No. 15		tive Milestone		uration-only Start-only		External Miles		Critical Sp	·lit						
	Project Summary	Inac	tive Summary	N	Ianual Summary Rollup Finish-or	ly 🗍	Deadline	+	Progress							



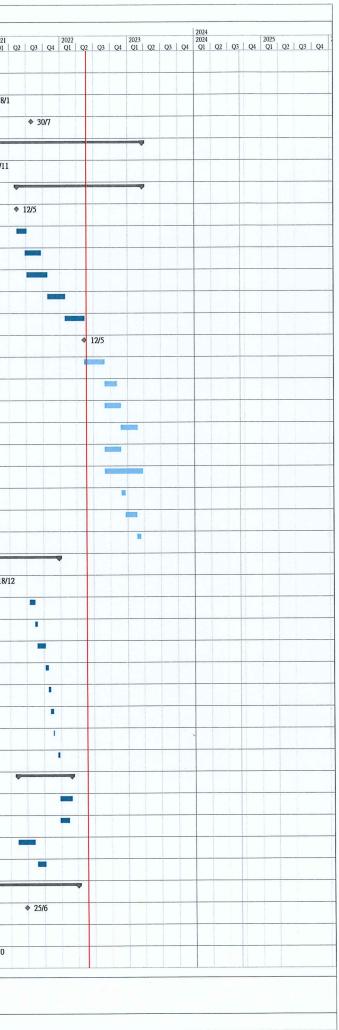
2	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018 4 Q1 Q2 Q3 C	2019 2019	2020	2021	2022		2023	2024	2025
Construction of Jacking Pit J1A (Hand Shield)	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	BALL TRACK	100%	Mon 3/5/21	Wed 9/6/21	4 Q1 Q2 Q3 C	<u>24 Q1 Q2 Q3 (</u>	24 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3 Q	Q1 Q2 Q3 0	<u>Q4 Q1</u>
Construction of Jacking Pit J1A	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day 441	467	100%	Mon 3/5/21	Wed 9/6/21	_								
Handshield Pipe Jacking (Pit G1A to Pit J1A)	288 days	Thu 10/6/21	Tue 31/5/22	HK Working Day		96%	Thu 10/6/21	NA									
	16 days	Thu 10/6/21	Tue 29/6/21	HK Working Day 465	468	100%	Thu 10/6/21	Tue 29/6/21									
Establishment at Pit J1A	101 days	Wed 30/6/21	Fri 29/10/21	HK Working Day 467	469		Wed 30/6/21										-
Hand shield pipe jacking (I.D. 1600 segment pipe), 0.65m/day		Sat 30/10/21	Fri 5/11/21	HK Working Day 468	470		Sat 30/10/21						1				
Remove Setup at Pit J1A	6 days				471		Tue 8/3/22	Wed 23/3/22									
Setup for Pipe Laying inside jacking Pit J1A	14 days	Tue 8/3/22	Wed 23/3/22				Thu 24/3/22										
DN1200 MS Pipe Laying inside jacking pipe (~70m) (3 days per 4m)	42 days	Thu 24/3/22	Wed 18/5/22		472												_
Formwork & Setup for Grouting the gap between pipe and Sleeve	8 days	Thu 19/5/22	Fri 27/5/22	HK Working Day 471	473		Thu 19/5/22										
Grouting Works (30 meter/day)	3 days	Sat 28/5/22	Tue 31/5/22	HK Working Day 472	475		NA	NA									
Open Trench between Pit K and J1A	138 days	Tue 26/4/22	Tue 11/10/22	HK Working Day		7%	Tue 26/4/22	NA									
Pipe Laying From Pit K to Pit J1A (OC) (48m)	62 days	Tue 26/4/22	Sat 13/8/22	HK Working Day 473	476	13%	Tue 26/4/22	NA									
Construction of Thrust Block from Pit K to Pit J1A	15 days	Mon 15/8/22	Wed 31/8/22	HK Working Day 475	477	0%	NA	NA									
Backfill Trench and Remove ELS	18 days	Thu 1/9/22	Thu 22/9/22	HK Working Day 476	478	0%	NA	NA									
Reinstatement of Plant and Shrubs in Roundabout	14 days	Fri 23/9/22	Tue 11/10/22	HK Working Day 477		0%	NA	NA									
renchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to	o 822 days	Fri 28/2/20	Mon 5/12/22	HK Working Day	765	55%	Fri 28/2/20	NA			-		•				
t P) Issue CE No. 50 - Realignment of Watermain at the Junction of Wan Po Road and Pc	o O days	Thu 11/6/20	Thu 11/6/20	Calendar Day		100%	Thu 11/6/20	Thu 11/6/20			11	/6					
Yap Road and the Junction of Po Hong Road and Po Shun Road. Construction of Jacking Pit K & Pit P	263 days	Fri 28/2/20	Fri 15/1/21	HK Working Day		100%	Fri 28/2/20	Fri 15/1/21									
Inspection Pit Excavation at Pit K	16 days	Fri 28/2/20	Tue 17/3/20	HK Working Day		100%	Fri 28/2/20	Tue 17/3/20									
Inspection Pit Excavation at Pit P	3 days	Mon 29/6/20	Thu 2/7/20	HK Working Day		100%	Mon 29/6/20	Thu 2/7/20									
Forming temporary Vehicle Access for Pit P	10 days	Thu 16/7/20	Mon 27/7/20	HK Working Day	486	100%	Thu 16/7/20	Mon 27/7/20									
	15 days	Sat 14/11/20		HK Working Day	489	100%	Sat 14/11/20	Tue 1/12/20									
Jacking Pit K		Mon 3/8/20	Fri 15/1/21	HK Working Day 484				Fri 15/1/21									
Jacking Pit P + additional Grouting	137 days		Tue 18/5/21				Fri 11/12/20					ųų					_
Hand Shield Jacking (Pit K to Pit L)	125 days	Fri 11/12/20					Fri 11/12/20					♦ 11/12					
MTR'S Consent Obtained	0 days	Fri 11/12/20	Fri 11/12/20		100		Mon 14/12/20										_
Establishment at Pit K	59 days) Fri 26/2/21	HK Working Day 485,531	490												
Segment @400mm Sleeve Pipe (Pit L to Pit K)(~ 56m) in Soil (0.8m/day)	59 days	Mon 1/3/21			491		Mon 1/3/21										
Remove setup at Pit K	4 days	Thu 13/5/21	Tue 18/5/21	HK Working Day 490	499		Thu 13/5/21					•					
TBM Pipe Jacking (Pit O to Pit P)	169 days	Wed 19/1/22	Tue 16/8/22	HK Working Day			Wed 19/1/22										
WSD accepted to change Sub-Contractor from Wellcon to VTEC	0 days	Wed 16/2/22	Wed 16/2/22	HK Working Day 555		100%	Wed 16/2/22	Wed 16/2/22						16/2			
TBM Establishment at Pit O	79 days	Wed 19/1/22	Thu 28/4/22	HK Working Day	495	100%	Wed 19/1/22	Thu 28/4/22									
Jacking DN1600 Precast Concrete Sleeve Pipe (200m; 3.0m/day)	67 days	Fri 29/4/22	Wed 20/7/22	2 HK Working Day 494	496	8%	Fri 29/4/22	NA									
Grouting around sleeve pipes	9 days	Thu 21/7/22	Sat 30/7/22	HK Working Day 495	508,497	0%	NA	NA									
Remove Pit setup at Pit P	14 days	Mon 1/8/22	Tue 16/8/22	HK Working Day 496	508	0%	NA	NA									
DN1200 Pipelaying (Pit K to Pit L)	116 days	Tue 14/12/21	Wed 11/5/2	2 HK Working Day		22%	Tue 14/12/21	NA					-				
Setup for Pipe Laying inside jacking Pit K	6 days	Tue 14/12/21	Fri 7/1/22	HK Working Day 491,545	500	100%	Tue 14/12/21	Fri 7/1/22									
DN1200 MS Pipe Laying inside jacking pipe (53m) (3 days per 4m) (Only Internal	15 days	Sat 8/1/22	Tue 25/1/22	HK Working Day 499	501	100%	Sat 8/1/22	Tue 25/1/22									
Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Wed 26/1/22	Sat 29/1/22	HK Working Day 500	502	100%	Wed 26/1/22	Sat 29/1/22					1				
Grouting Works (30 meter/day)	4 days	Wed 9/2/22			503,505	100%	Wed 9/2/22	Sat 12/2/22					1				
	9 days	Thu 10/2/22		HK Working Day 502	504	10%	Thu 10/2/22	NA									
Pipe Connection at Pit L	24 days		Sat 19/3/22			0%	NA	NA									
Remove ELS at Pit L					506	0%	NA	NA									
Remove ELS at Pit K	24 days	WON 14/2/22	Sat 12/3/22	The morning bay 502	500	570											
ogramme No. 15 Task Summary		tive Milestone			rt-only E	External Milesto		Critical Spli									
24 May 2022 Split Project Summary Milestone Inactive Task		tive Summary 👘		Manual Summary Rollup Fir Manual Summary Ex	ish-only 🔹 ternal Tasks	Deadline	+	Progress Manual Pro	TEN								

	D.	St. +	Tinish	Taal Calandar Devi	Project: Mainlaying in T		Actual Chart	Actual Finish											
	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Pinish	2018 Q4 Q1 Q2 Q3	2019 2019		2020	2021	202	2	2023	2024 2024	m m =	202
Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	Mon 14/3/22	Wed 11/5/22	HK Working Day 505	515	0%	NA	NA	Q4 Q1 Q2 Q3	Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	Q
11200 Pipelaying (Pit P to Pit O)		Wed 17/8/22	Mon 5/12/22	HK Working Day		0%	NA	NA							- Pres				+
	1 Section		Tue 23/8/22	HK Working Day 496,497	509	0%	NA	NA					-		1				+
Setup for Pipe Laying inside jacking Pit O																			-
DN1200 MS Pipe Laying inside jacking pipe (187m) (3 days per 8m)(Only Internal Coating)				HK Working Day 508	510	0%	NA	NA											-
Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 17/11/22	Sat 19/11/22	HK Working Day 509	511	0%	NA	NA			*					1			
Grouting Works (30 meter/day)	6 days	Mon 21/11/22	Sat 26/11/22	HK Working Day 510	577,512,610	0%	NA	NA								1			
Pipe Connection at Pit O	6 days	Mon 28/11/22	Sat 3/12/22	HK Working Day 511	513	0%	NA	NA								1			
Remove ELS at Pit O	1 day	Mon 5/12/22	Mon 5/12/22	HK Working Day 512		0%	NA	NA								1			
instatement of Po Yap Road Roundabout	66 days	Thu 12/5/22	Fri 29/7/22	HK Working Day		0%	NA	NA							0-0				T
Reinstatement Works	60 days	Thu 12/5/22	Fri 22/7/22	HK Working Day 506	516	0%	NA	NA											
Handover Inspection with LCSD	6 days	Sat 23/7/22	Fri 29/7/22	HK Working Day 515		0%	NA	NA							1				T
chless Work from Po Yap Road Roundabout (Hong Kong Velodrome)	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Day	765	80%	Tue 2/4/19	NA											-
sue CE No. 14 - Manhole inspection of existing drain/Outfall near Hong Kong	1.1.5-5-5	Tue 2/4/19	Tue 2/4/19	Calendar Day	521,522		Tue 2/4/19	Tue 2/4/19			▶ 2/4	-							
lodrome and TKO stage 1 Landfill and CCTV survey of existing Drain at Cycle Track					521,522	100%	-	Mon 13/1/20				13/1							-
sue CE No. 28 - Realignment of Water Mains along Po Yap Road and Po Hong Road		Mon 13/1/20	Mon 13/1/20	Calendar Day	321,322							• 13/1 • 30	/6						-
ue CE No. 28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and eung Kwan O Sport Ground	d 0 days	Tue 30/6/20	Tue 30/6/20	Calendar Day				Tue 30/6/20					VU						1
nder and Subletting for CE No. 28	99 days	Mon 18/11/19	Mon 24/2/20	Calendar Day 519,518		100%	Mon 18/11/1	9 Mon 24/2/20											
A preparation, SLG meetings, obtain RA and TPRP Approval for Temporary chicular Access at HK Velodrome	128 days	Mon 13/1/20	Tue 19/5/20	Calendar Day 519,518	523	100%	Mon 13/1/20	Tue 19/5/20											
pordination with LCSD and Notification to District Councilors	14 days	Wed 20/5/20	Tue 2/6/20	Calendar Day 522	524	100%	Wed 20/5/20	Tue 2/6/20				•							
orm Temporary Vehicle Access at TKO Sport Ground	5 days	Mon 1/6/20	Mon 8/6/20	HK Working Day 523	525	100%	Mon 1/6/20	Mon 8/6/20				I							
ree Transplanting Working & Tree Removal Works at TKO Sport Ground (CE No. 28)	10 days	Tue 9/6/20	Fri 19/6/20	HK Working Day 524	526	100%	Tue 9/6/20	Fri 19/6/20											
ee Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	3 days	Sat 20/6/20	Tue 23/6/20	HK Working Day 525	527	100%	Sat 20/6/20	Tue 23/6/20				I							T
obilization of Sheet-piles and Driving Machines	7 days	Wed 24/6/20	Fri 3/7/20	HK Working Day 526	534,532	100%	Wed 24/6/20	Fri 3/7/20											T
forks suspended by closure of vehicular access at Velodrome	8 days	Mon 10/5/21	Mon 17/5/21	Calendar Day		100%	Mon 10/5/21	Mon 17/5/21								-			+
	882 days	Sat 4/7/20	Mon 26/6/23			77%	Sat 4/7/20	NA		1							•		t
renchless Works (Pit L to Pit O)	175 days	Sat 4/7/20	Sat 30/1/21	HK Working Day		100%	Sat 4/7/20	Sat 30/1/21											+
Construction of Jacking Pit & Receiving Pit				HK Working Day 532	489			Sat 30/1/21		4									+
Receiving Pit L	81 days	Sat 24/10/20	Sat 30/1/21																+
Jacking Pit M	89 days	Sat 11/7/20	Sat 24/10/20	HK Working Day 527	531,547		Sat 11/7/20												_
Receiving Pit N	66 days	Thu 30/7/20	Fri 16/10/20	HK Working Day		100%	Thu 30/7/20												1
Jacking / Receiving Pit O + additional Grouting	124 days	Sat 4/7/20	Sat 28/11/20	HK Working Day 527	551	100%	Sat 4/7/20	Sat 28/11/20											
TBM Pipe Jacking (Pit M to Pit L)	273 days	Thu 13/5/21	Mon 11/4/22	HK Working Day		100%	Thu 13/5/21	Mon 11/4/22	2										
Re-establishment at Pit M for changing jacking direction	64 days	Thu 13/5/21	Thu 29/7/21	HK Working Day 549	537	100%	Thu 13/5/21	Thu 29/7/21											
DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) approx. 10m	12 days	Fri 30/7/21	Thu 12/8/21	HK Working Day 536	538,539	100%	Fri 30/7/21	Thu 12/8/21						1					
TBM suspended, review for Rescue pit construction	5 days	Fri 13/8/21	Wed 18/8/21	HK Working Day 537	540	100%	Fri 13/8/21	Wed 18/8/21						1			-		1
Review and study the alternative construction method (Open Cut in normal	26 days	Fri 13/8/21	Sun 12/9/21	HK Working Day 537	544	100%	Fri 13/8/21	Sun 12/9/21											T
condition) Rescue Pit Construction & Retrieval of TBM	39 days	Thu 19/8/21	Tue 5/10/21	HK Working Day 538	541	100%	Thu 19/8/21	Tue 5/10/21											
Set up working platform and lifting grantry at Rescue Pit for Handshield; Formir		Mon 11/10/21		HK Working Day 540	542	100%	Mon 11/10/2	21 Sat 6/11/21											
Entrance	22 days	Mon 8/11/21		HK Working Day 541	543			L Thu 2/12/21											+
Hand dig tunnel between Pit M and Rescue Pit				HK Working Day 542	560			Sat 18/12/21						-			-		+
Remove setup & removal of Thrust wall	14 days	Fri 3/12/21		n on the second										6/9					+
WSD accepted Alternative Scheme from Pit O to Pit L	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 539	545			Mon 6/9/21											-
Water mains by Open Cut Method (West Portion - 143m)	171 days	Mon 13/9/21	Mon 11/4/22	HK Working Day 544	560,499			1 Mon 11/4/22											
TBM Pipe Jacking (Pit M to Pit N)	159 days	Mon 26/10/2	Wed 12/5/21	L HK Working Day		100%	Mon 26/10/2	20 Wed 12/5/21											
Establishment at Pit M	29 days	Mon 26/10/20) Sat 28/11/20	HK Working Day 532	548	100%	Mon 26/10/2	20 Sat 28/11/20											
Task Summary	Inactive	e Milestore	n	uration-only Sta	art-only E	External Milesto	me 🐡	Critical	Split										_
mme No. 15 Task Summary Project Summary		e Summary			nish-only]	Deadline		Progress		and the second second second									

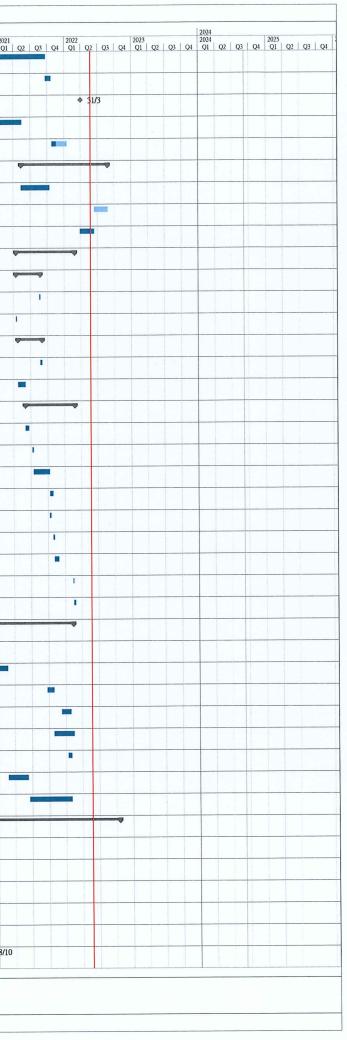
Fact M		Duration	Start	Finish	Task Calendar Predecessors	Successors	%	Actual Start	Actual Finish					
Fask Nam	une	Doradou	51141		1100000010		Complete		-	2018		2019	02 01 20	20
	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit N) (CH.GA1+86 to CH.GA3+20	119 days	Mon 30/11/20	Wed 28/4/21	HK Working Day 547	549	100%	Mon 30/11/20		24 QI Q2	Q3 Q4	QI Q2	Q3 Q4 Q	Q1 Q2 Q3
	in Soil (134m; 3.5m/day)		Thu 29/4/21	Wed 12/5/21	HK Working Day 548	536	100%	Thu 29/4/21	Wed 12/5/21					
	Grouting around sleeve pipe	11 days	1nu 29/4/21	Weu 12/5/21		550								
	TBM Pipe Jacking (Pit O to Pit N)	226 days	Mon 30/11/20	Mon 6/9/21	HK Working Day		100%	Mon 30/11/20	Mon 6/9/21					
	Establishment at Pit O	51 days	Mon 30/11/20	Sat 30/1/21	HK Working Day 534	552	100%	Mon 30/11/20	Sat 30/1/21					
	DN1600 Precast Concrete Sleeve Pipe (Pit O - Pit N) Suspended due to water	31 days	Mon 1/2/21	Thu 11/3/21	HK Working Day 551	553	100%	Mon 1/2/21	Thu 11/3/21					
	ingress and obstruction at 8m away from Pit O Retraction of Sleeve pipe	28 days	Fri 12/3/21	Sat 17/4/21	HK Working Day 552	554	100%	Fri 12/3/21	Sat 17/4/21					
	Retraction of Sieeve pipe													
	Rescue Pit for TBM	74 days	Mon 19/4/21	Sat 17/7/21	HK Working Day 553	555	100%	Mon 19/4/21	Sat 1///21					
	Remove TBM from Rescue Pit; Detail Inspection ad Trial operation on ground	30 days	Mon 19/7/21	Sat 21/8/21	HK Working Day 554	556,557,493	100%	Mon 19/7/21	Sat 21/8/21					
	Dismantle and remove set up at Pit O	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555		100%	Mon 23/8/21	Sat 4/9/21					
	Review and study the alternative construction method (Open Cut in wet	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555	558	100%	Mon 23/8/21	Sat 4/9/21					
	condition)		Man 6/0/21	Map 6/0/21	HK Working Day 557	574	100%	Mon 6/9/21	Mon 6/9/71				-	
	WSD accepted Alternative Scheme from Pit O to Pit L	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 557	574	10078							
	DN1200 Pipelaying in side Hang Dig Tunnel (Pit M to Pit L)	33 days	Mon 20/12/21	Sat 29/1/22	HK Working Day		100%	Mon 20/12/21	Sat 29/1/22					
	setup for pipe laying inside hand dig tunnel	5 days	Mon 20/12/21	Fri 24/12/21	HK Working Day 543,545	561	100%	Mon 20/12/21	Fri 24/12/21					
-	DN1200 MS Pipe Laying inside Hand dig tunnel	10 days	Tue 28/12/21	Sat 8/1/22	HK Working Day 560	562	100%	Tue 28/12/21	Sat 8/1/22					
		5 days	Wed 12/1/22	Mon 17/1/22	HK Working Day 561	563	100%	Wed 12/1/22	Mon 17/1/22					
	Formwork & Setup for Grouting the gap between pipe and Sleeve	Juays							1					
	Grouting Works (30 meter/day)	8 days	Wed 19/1/22	Thu 27/1/22	HK Working Day 562	564	100%	Wed 19/1/22	Thu 27/1/22					
	Remove Pit setup	2 days	Fri 28/1/22	Sat 29/1/22	HK Working Day 563	570,566,580	100%	Fri 28/1/22	Sat 29/1/22					
	DN1200 Pipelaying in Sleeve pipe (Pit M to Pit N)	147 days	Tue 8/3/22	Sat 3/9/22	HK Working Day	自己的正确还是	42%	Tue 8/3/22	NA					
	Setup for Pipe Laying inside jacking Pit N	28 days	Tue 8/3/22	Sat 9/4/22	HK Working Day 564	567	100%	Tue 8/3/22	Sat 9/4/22			_	_	
							75%		1					
	DN1200 MS Pipe Laying inside jacking pipe (134m) (3 days per 8m)(Only Intern Coating)	al 45 days	Mon 11/4/22	Wed 8/6/22	HK Working Day 566	568	75%	Mon 11/4/22						
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 9/6/22	Sat 11/6/22	HK Working Day 567	569	0%	NA	NA					
	Grouting Works (30 meter/day)	5 days	Mon 13/6/22	Fri 17/6/22	HK Working Day 568	570,575	0%	NA	NA					
	Pipe Connection Inside Pit M	12 days	Sat 18/6/22	Sat 2/7/22	HK Working Day 569,564	571	0%	NA	NA					
-				Sat 6/8/22	HK Working Day 570	572	0%	NA	NA					
	Construction of IT Chamber at Pit M	30 days	Mon 4/7/22											-
	Remove ELS including extracting sheet piles at Pit M & Pit N	24 days	Mon 8/8/22	Sat 3/9/22	HK Working Day 571	580	0%	NA	NA					
	DN1200 Pipelaying (Pit O to Pit N)	296 days	Wed 12/1/22	Wed 11/1/23	HK Working Day		24%	Wed 12/1/22	NA					
	Water mains by Open Cut Method (West Portion - 177m)	150 days	Wed 12/1/22	Mon 18/7/22	HK Working Day 558	575	36%	Wed 12/1/22	NA					
-		12 days	Tue 19/7/22	Mon 1/8/22	HK Working Day 569,574	576	0%	NA	NA				_	
	Pipe Connection Inside Pit N													
	Remove ELS including extracting sheet piles at Pit N	24 days	Tue 2/8/22	Mon 29/8/22	HK Working Day 575	580	0%	NA	NA					
	Pipe Connection in side Pit O	12 days	Mon 28/11/22	Sat 10/12/22	HK Working Day 511	578	0%	NA	NA					
	Remove ELS including extracting sheet piles at Pit O	24 days	Mon 12/12/22	Wed 11/1/23	HK Working Day 577	580	0%	NA	NA					
	Reinstallation of Cycle track Pavement and Planter	132 days	Thu 12/1/23	Mon 26/6/23	HK Working Day		0%	NA	NA					
						591		NA	NA					_
	Reinstalment Works	96 days	Thu 12/1/23	Fri 12/5/23	HK Working Day 576,578,572,564	581	0%							
1	Compensation Tree Planting	30 days	Sat 13/5/23	Sat 17/6/23	HK Working Day 580	582	0%	NA	NA					
-	Handover Inspection with LCSD and HyD	6 days	Mon 19/6/23	Mon 26/6/23	HK Working Day 581		0%	NA	NA					
	Water Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day		80%	Tue 7/11/17	NA	~				
			Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18		23/8			
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Roa and TKO Freshwater PSR													
1	Issue CE No. 51 - Realignment of Water Main in Tsui Lam Section	0 days	Mon 3/8/20	Mon 3/8/20	Calendar Day	590,587,736,588,589	100%	Mon 3/8/20	Mon 3/8/20					*
-	Issue WSD Letter Ref.: (4) in WSD/M/7503/13/WSD/16/M15/300/51 for additional	0 days	Thu 3/9/20	Thu 3/9/20	Calendar Day		100%	Thu 3/9/20	Thu 3/9/20					4
-	works to CE No. 51 Tendering Process, Tender Award for CE No. 51 (Batch No, 1)	82 days	Mon 3/8/20	Fri 23/10/20	Calendar Day 585		100%	Mon 3/8/20	Fri 23/10/20					
			Mon 3/8/20	Thu 12/11/20			100%	Mon 3/8/20	Thu 12/11/20					
	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days				5 - S - S - S - S - S - S - S - S - S -								
	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	200 days	Mon 3/8/20	Thu 18/2/21	Calendar Day 585	735,737	100%	Mon 3/8/20	Thu 18/2/21					
						-								
	rogramme No. 15 Task Summary Task Project Summary		ve Milestone ve Summary		anual Summary Rollup		xternal Milesto ⊎eadline	ne 🧇	Critical Spli Progress					
Date ·	: 24 May 2022 Milestone Inactive Task		al Task 📃		anual Summary External Tasks		ritical		Manual Pro	aress -				



		Duri	Start	Einich	Task Calandar D-1	Sussansor	C.	Actual Start	Actual Finish						-		
k Nan	18	Duration	Start	Finish	Task Calendar Predecessors	Successors	Complete	Actual Start	-	2018	3		2019		2	020	1
	TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days	Mon 3/8/20	Tue 10/11/20	Calendar Day 585		100%	Mon 3/8/20	Tue 10/11/20	Q4 Q1	Q2	Q3 Q4	Q1	Q2 Q	23 Q4 9	21 Q2	Q3
		1 day	Mon 21/12/20	Mon 21/12/20	HK Working Day		100%	Mon 21/12/20	Mon 21/12/20								
									Fri 8/1/21	_					_		
	Issue EWN No 269 - Unexpected High Rockhead Level Encountered at Working Pit R	0 days	Fri 8/1/21	Fri 8/1/21	HK Working Day		100%										
	Receiving of Drawing No. SK40134-517 for Changing Construction Method and Alignment from Pit P to Pit T	0 days	Fri 30/7/21	Fri 30/7/21	HK Working Day		100%	Fri 30/7/21	Fri 30/7/21								
		688 days	Tue 24/11/20	Wed 22/3/23	HK Working Day	765	54%	Tue 24/11/20	NA								
	Issue EWN No. 241 for Tree Issue for Changing Trenchless (Pit S to Pit T) to Open	0 days	Tue 24/11/20	Tue 24/11/20	HK Working Day	626	100%	Tue 24/11/20	Tue 24/11/20								
	Cut at Control Site (CS-108)	554 days	Wed 12/5/21	Wed 22/3/23	HK Working Day		39%	Wed 12/5/21	NA						_		
		0 days	Wed 12/5/21	Wed 12/5/21	HK Working Day	598	100%	Wed 12/5/21	Wed 12/5/21						-		
															-		
	Mobilization and Carry out Horizontal grouting	43 days	Wed 12/5/21	Sat 3/7/21	HK Working Day 597	600	100%	Wed 12/5/21	Sat 3/7/21								
	Receiving Pit Y	74 days	Fri 25/6/21	Mon 20/9/21	HK Working Day		100%	Fri 25/6/21	Mon 20/9/21								
	Establishment and Set up for pipe jacking at Pit P	93 days	Mon 5/7/21	Sat 23/10/21	HK Working Day 598	601	100%	Mon 5/7/21	Sat 23/10/21								
	Jacking DN1600 Precast Concrete Sleeve Pipe	79 days	Mon 25/10/21	Thu 27/1/22	HK Working Day 600		100%	Mon 25/10/21	Thu 27/1/22								
	Stop Works due to incident at KMB deport	106 days	Thu 27/1/22	Thu 12/5/22	Calendar Day	603FF	100%	Thu 27/1/22	Thu 12/5/22							_	
						604	100%		Thu 12/5/22								-
	WSD obtained approval from TD, KMD and HyD	0 days	Thu 12/5/22	Thu 12/5/22													
	Constuction of Rescure Pit at KMB Depot and Remove TBM	90 days	Fri 13/5/22	Sat 27/8/22	HK Working Day 603	606,608,609,605	1%	Fri 13/5/22	NA								
	Pipe Laying from Pit P to Rescure Pit at KMB Depot	54 days	Mon 29/8/22	Wed 2/11/22	HK Working Day 604	610	0%	NA	NA								
	Open Cut at KMB Depot Stage 1	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604	607	0%	NA	NA								
	Open Cut at KMB Depot Stage 2	72 days	Thu 24/11/22	Wed 22/2/23	HK Working Day 606		0%	NA	NA	-					-		
	Open Cut outside at KMB Depot along Po Hong Road Green Area	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604		0%	NA	NA				-			_	
								NA	NA			_	_		_		-
	Open Cut Across Po Hong Road (Lane by Lane, 42 W.D. per lanes; 4 Stage)	168 days	Mon 29/8/22	Wed 22/3/23	HK Working Day 604		0%										
	Pipe Connection inside Working Pit P	18 days	Mon 28/11/22	Sat 17/12/22	HK Working Day 605,511	611	0%	NA	NA								
	Construction of Combined chamber at Pit P	48 days	Mon 19/12/22	Sat 18/2/23	HK Working Day 610	612	0%	NA	NA								
	Remove ELS including extracting sheet piles at Pit P; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 611		0%	NA	NA								
-	Hand Shield Pipe Jacking from Pit R to Pit Y	300 days	Fri 18/12/20	Wed 22/12/21	HK Working Day		100%	Fri 18/12/20	Wed								-
	Issue CE No. 94 - Site Clearance of Affected Trees and Plants for Mainlaying	0 days	Fri 18/12/20	Fri 18/12/20	Calendar Day	416	100%	Fri 18/12/20	22/12/21 Fri 18/12/20						_		-
	works near Po Hong Road and Ling Hong Road	25 days	Fri 16/7/21	Fri 13/8/21	HK Working Day	616	100%	Fri 16/7/21	Fri 13/8/21			_	-				-
	Jacking / Receiving Pit R										_	_			_		
	Establishment at Pit R	10 days	Sat 14/8/21	Wed 25/8/21	HK Working Day 615	617	100%	Sat 14/8/21	Wed 25/8/21								
	Mild Steel Sleeve Pipe in Mix of Soil (26m)(0.8m/day)	35 days	Thu 26/8/21	Thu 7/10/21	HK Working Day 616	618	100%	Thu 26/8/21	Thu 7/10/21								
	Remove Setup at Pit R	13 days	Fri 8/10/21	Sat 23/10/21	HK Working Day 617	619	100%	Fri 8/10/21	Sat 23/10/21								
	Setup for Pipe Laying inside Jacking Pit R	12 days	Mon 25/10/21	Sat 6/11/21	HK Working Day 618	620	100%	Mon 25/10/21	Sat 6/11/21						_		1
	DN1200 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal	13 days	Fri 5/11/21	Fri 19/11/21	HK Working Day 619	621	100%	Fri 5/11/21	Fri 19/11/21				_		_	_	-
	Coating)		Sat 20/11/21	Mon 22/11/21	HK Working Day 620	622	100%	Sat 20/11/21	Mon 22/11/21				_			-	+-
	Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days									_						_
	Grouting Works	9 days	Mon 13/12/21	L Wed 22/12/21	HK Working Day 621	624	100%	Mon 13/12/21	Wed 22/12/21								
	Open Cut Excavation from Pit R to Mau Wu Tsai Abandon Road	239 days	Mon 10/5/21	Fri 25/2/22	HK Working Day	767	100%	Mon 10/5/21	Fri 25/2/22								
	Open Cut, CH.HA0+28 - CH.HA0+48 with DAV Chamber (Connecting to Pit R)	49 days	Fri 24/12/21	Fri 25/2/22	HK Working Day 622,627	625	100%	Fri 24/12/21	Fri 25/2/22								
	Construction of DN900 Valve Chamber with by-pass at CH.HA0+44	36 days	Fri 24/12/21	Thu 10/2/22	HK Working Day 624		100%	Fri 24/12/21	Thu 10/2/22								
	Open Cut, CH.HA0+48 - CH.HA 1+20 OC with DN600 IT Chamber (Connecting	75 days	Mon 10/5/21	Sun 8/8/21	HK Working Day 635,595	627	100%	Mon 10/5/21	Sun 8/8/21		-						-
	Original CH.HA0+80)		Mon 23/8/21		HK Working Day 626	624	100%	Mon 23/8/21									-
	Construction of Wash Out Chamber & Reserved Tee at CH.HA0+49	36 days															-
	Open Trench Pipe laying at Abandoned Road	451 days	Tue 22/9/20	Thu 31/3/22	HK Working Day	767	91%	Tue 22/9/20									
	Issue CE No. 121 - Non-explosive agent in Abandoned Road Near Mau Wu Tsai	0 days	Fri 25/6/21	Fri 25/6/21	HK Working Day		100%	Fri 25/6/21	Fri 25/6/21								
	Village Issue CE No. 70 - Landscaping Survey near Mau Wu Tsai Village	0 days	Tue 22/9/20	Tue 22/9/20	HK Working Day		100%	Tue 22/9/20	Tue 22/9/20								
	Issue CE No. 86 - Tree Affected in Mainlaying Works near Mau Wu Tsai Village	0 days	Mon 12/10/2	0 Mon 12/10/20) HK Working Day	632	100%	Mon 12/10/20) Mon 12/10/20								
			1														
ng Pr	ogramme No. 15 Task Summary Point Summary		tive Milestone		ration-only Start-on		External Milesto		Critical Spl	t							
15 11	24 May 2022 Split Project Summary] Inact	tive Summary	M	anual Summary Rollup Finish-	only 🗍	Deadline	+	Progress								

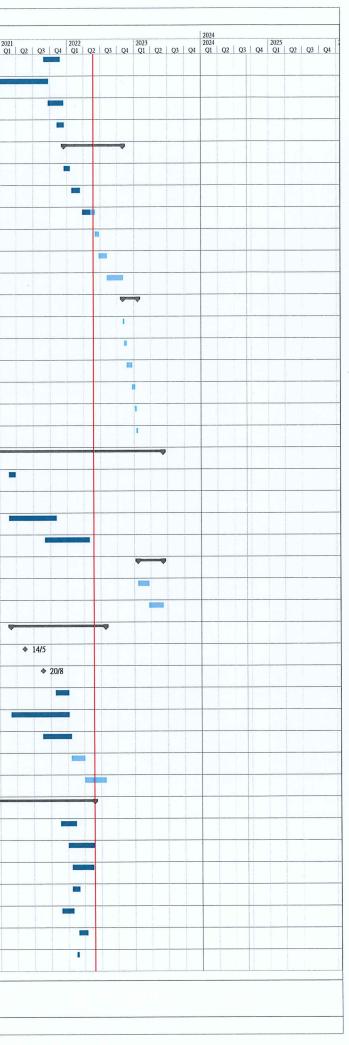


m. 1 M	m 3	Duration	Start	Finish	Task Calendar Predecessors	Successors	%	Actual Start	Actual Finish			Lar				
Task Na	Sm	Duraten	Shar	1 11201			Complete			2018		2019 2019	02 07	2020 Q4 Q1		03 04
_	Tree survey, TPRP Submission and Receiving TPRP approval	295 days	Tue 22/9/20	Mon 20/9/21	HK Working Day 631	661,633	100%	Tue 22/9/20	Mon 20/9/21	Q4 Q1	Q2 Q5		<u> </u>			
_	Mobilization and Tree Removal	23 days	Tue 21/9/21	Wed 20/10/21	HK Working Day 632	663,636	100%	Tue 21/9/21	Wed 20/10/21							
	Issue CE No. XXX - Change Trenchless (Pit U - Pit V) to Open Cut and Revised the	0 days	Thu 31/3/22	Thu 31/3/22	HK Working Day		0%	NA	NA							
	Alignment	141 days	Thu 19/11/20	Fri 14/5/21	HK Working Day	626	100%	Thu 19/11/20	Fri 14/5/21							
	Open Cut, CH.HA0+80 - CH.HA3+17					020		Tue 26/10/21							_	
	Open Cut, CH.HA3+17 - CH.HA3+79	66 days	Tue 26/10/21	Thu 13/1/22	HK Working Day 633		30%		hat a second							
	Open Trench Pipe Laying at Po Lam Road South (Mau Wu Tsai Village)	382 days	Wed 12/5/21	Tue 23/8/22	HK Working Day		74%	Wed 12/5/21								
-	Open Cut, CH.HA3+79 - CH.HA4+68 with SACP	127 days	Wed 12/5/21	Tue 12/10/21	HK Working Day	639	100%	Wed 12/5/21	Tue 12/10/21							
-	Open Cut, CH.HA4+68 - CH.HA5+21	60 days	Tue 14/6/22	Tue 23/8/22	HK Working Day 638,640		0%	NA	NA							
-	Open Cut, CH.HA5+21 - CH.HA5+55 (Pit W)	60 days	Mon 28/3/22	Mon 13/6/22	HK Working Day	639	95%	Mon 28/3/22	NA							
125.5	Trenchless Work at Po Lam Road South	259 days	Wed 14/4/21	Thu 24/2/22	HK Working Day	STORE STATE	100%	Wed 14/4/21	Thu 24/2/22							
	Inspection Pit Excavation	108 days	Wed 14/4/21	Sat 21/8/21	HK Working Day		100%	Wed 14/4/21	Sat 21/8/21							
		4 days	Wed 18/8/21	Sat 21/8/21	HK Working Day	646	100%	Wed 18/8/21	Sat 21/8/21							
3	Inspection Pit Excavation at Pit W					647		Wed 14/4/21					_		_	
	Inspection Pit Excavation at Pit X	3 days	Wed 14/4/21	Fri 16/4/21	HK Working Day	047										
	Construction of Jacking / Receiving Pits	107 days	Sat 24/4/21	Tue 31/8/21	HK Working Day	1913年1月1日第	100%	Sat 24/4/21	Tue 31/8/21	-					-	
5	Receiving Pit W	8 days	Mon 23/8/21	Tue 31/8/21	HK Working Day 643		100%	Mon 23/8/21	Tue 31/8/21							
7	Jacking Pit X	31 days	Sat 24/4/21	Tue 1/6/21	HK Working Day 644	649	100%	Sat 24/4/21	Tue 1/6/21							
8	Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	219 days	Wed 2/6/21	Thu 24/2/22	HK Working Day		100%	Wed 2/6/21	Thu 24/2/22							
9	Establishment at Pit X	15 days	Wed 2/6/21	Sat 19/6/21	HK Working Day 647	650	100%	Wed 2/6/21	Sat 19/6/21							
	Form Entrance Opening at pit X	5 days	Thu 8/7/21	Tue 13/7/21	HK Working Day 649	651	100%	Thu 8/7/21	Tue 13/7/21							
		73 days	Wed 14/7/21	Fri 8/10/21	HK Working Day 650	652,653	100%	Wed 14/7/21	Fri 8/10/21							
	Mild Steel Sleeve Pipe in Mix of Soil (46m) (0.6m / day)					654			Wed 27/10/21							
	Rearrangement Wailing and Form Exit Opening at Pit W	14 days	Mon 11/10/21													_
	Remove Setup it Pi X	5 days	Sat 9/10/21	Fri 15/10/21	HK Working Day 651	654	100%	Sat 9/10/21	Fri 15/10/21							
	Setup for Pipe Laying inside Jacking Pit X	6 days	Thu 28/10/21	Wed 3/11/21	HK Working Day 653,652	655	100%	Thu 28/10/21	Wed 3/11/21							
	DN900 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal)	19 days	Thu 4/11/21	Thu 25/11/21	HK Working Day 654	656	100%	Thu 4/11/21	Thu 25/11/21							
	Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 12/2/22	Mon 14/2/22	HK Working Day 655	657	100%	Sat 12/2/22	Mon 14/2/22							
7	Grouting Works (30m per day)	9 days	Tue 15/2/22	Thu 24/2/22	HK Working Day 656		100%	Tue 15/2/22	Thu 24/2/22							
8	Open Trench Pipe Laying at Po Lam Road (West Bound)	465 days	Mon 20/7/20	Fri 11/2/22	HK Working Day	767,768	100%	Mon 20/7/20	Fri 11/2/22							·
		0 days	Mon 20/7/20	Mon 20/7/20	HK Working Day	660	100%	Mon 20/7/20	Mon 20/7/20							20/7
9	Issue CE No. 68 - TIA for TTA at Po Lam Road				HK Working Day 659	665		Mon 20/7/20								
D	Traffic Survey and Revise TIA, revised TTA Drawings, Obtain RA	177 days	Mon 20/7/20												_	_
	Mobilization and Tree Removal	29 days	Tue 21/9/21	Wed 27/10/21	HK Working Day 632	663,664,662	100%	Tue 21/9/21	Wed 27/10/21							
2	Construction of DAV Chamber at Pit X	41 days	Tue 7/12/21	Wed 26/1/22	HK Working Day 661		100%	Tue 7/12/21	Wed 26/1/22							
53	Open Cut, fromt Pit X, CH.HA6+00 - CH.HA6+54	86 days	Thu 28/10/21	Fri 11/2/22	HK Working Day 661,665,633		100%	Thu 28/10/21	Fri 11/2/22							
4	Construction of DN900 Valve Chamber and By Pass Pipes	17 days	Tue 11/1/22	Sat 29/1/22	HK Working Day 661		100%	Tue 11/1/22	Sat 29/1/22							
15	Open Cut, CH.HA6+54 to CH.HA7+24 (Portion SKR) with SACP	85 days	Mon 22/2/21	Mon 7/6/21	HK Working Day 660	666,663	100%	Mon 22/2/21	Mon 7/6/21							
56	Open Cut, CH.HA7+24 - CH.HA7+61/CH.HB0+00 Excavation in Rock	189 days	Wed 16/6/21	Sat 29/1/22	HK Working Day 665		100%	Wed 16/6/21	Sat 29/1/22							_
57	Water Main Structure and Associated Pipe Support across the Natural Stream	730 days	Tue 5/5/20	Tue 18/10/22	HK Working Day	768	93%	Tue 5/5/20	NA					_		
	Course (Location A) (CH.HB0+00 ~ CH.HB0+ CE)			Tue 16/6/20	HK Working Day	669		Tue 5/5/20	Tue 16/6/20					_	-	
8	Design Submission (CE No. 55) for Water Main Structure and Associated Pipe Support across the Natural Stream Course	37 days	Tue 5/5/20											_		
9	WSD & GEO Review and Approve	121 days	Wed 17/6/20	Thu 15/10/20	Calendar Day 668	672	100%	Wed 17/6/20								
D	Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	113 days	Wed 26/8/20	Wed 16/12/2	D Calendar Day		100%	Wed 26/8/20	Wed 16/12/20)						
1	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Supp	ort 0 days	Tue 5/5/20	Tue 5/5/20	Calendar Day		100%	Tue 5/5/20	Tue 5/5/20						5/	/5
2	across the Natural Stream Course for Alternative Alignment in Tsui Lam Tender and Subletting (Mini-Pile)	62 days	Fri 16/10/20	Wed 16/12/2	D Calendar Day 669		100%	Fri 16/10/20	Wed 16/12/20	D						-
73	Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location A)	0 days	Wed 28/10/2	0 Wed 28/10/2	0 Calendar Day		100%	Wed 28/10/2	0 Wed 28/10/2)						*
orking P	cogramme No. 15 Task Summary		tive Milestone		aration-only Start-only	· · · · · · · · · · · · · · · · · · ·	External Milesto		Critical S	plit						
JEKING P	rogramme No. 15 : 24 May 2022 Split Project Summary) Inac	tive Summary	M	anual Summary Rollup Finish-or anual Summary External	nly 🔳	Deadline	+	Progress Manual F							



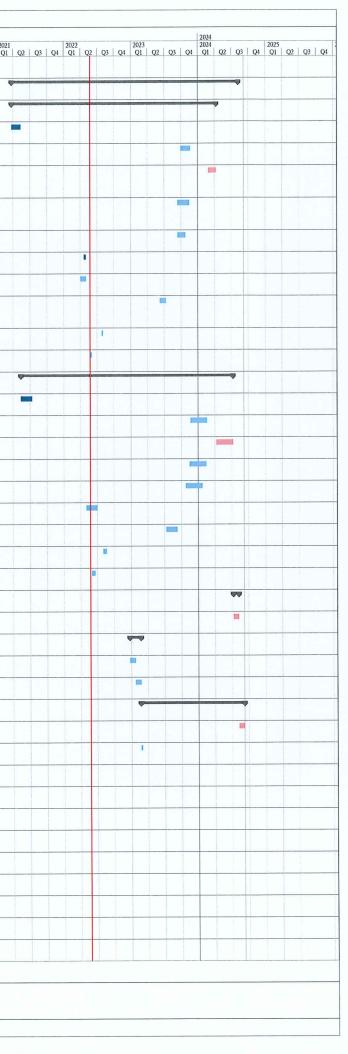
Name		Duration	Start	Finish	Task Calendar	Predecessors	Project: Mainlaying in Tseu Successors	% Complete	Actual Start	Actual Finish		2019			1		2024		2025
											Q4 Q1 Q2 Q3 Q	2019 2019 24 Q1 Q2 Q3 Q4 Q1	0 202 1 Q2 Q3 Q4 Q1	1 1 Q2 Q3 Q4	2022 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1 Q2	Q3 Q4	2025 Q1 Q2
Tr	ree survey, TPRP Submission and Receiving TPRP approval (HyD)	227 days	Mon 31/8/20	Tue 8/6/21	HK Working Day		676	100%	Mon 31/8/20	Tue 8/6/21									
Ea	ast Portion - Foundation Works (PC-C1, PC-T1 & PC-P1)	283 days	Wed 9/6/21	Tue 24/5/22	HK Working Day			99%	Wed 9/6/21	NA				Q					
	Mobilization and Tree Removal	24 days	Wed 9/6/21	Thu 8/7/21	HK Working Day	674	677	100%	Wed 9/6/21	Thu 8/7/21				-					
	Erect Temporary Timber Platform for Piling Works	7 days	Fri 9/7/21	Fri 16/7/21	HK Working Day	676	678	100%	Fri 9/7/21	Fri 16/7/21									
	Pre-drilling works (PD6, PD7 & PD8) & confirmation of rock head and depth of	25 days	Sat 17/7/21	Sat 14/8/21	HK Working Day	677	679,686	100%	Sat 17/7/21	Sat 14/8/21									
	mini-pile Mobilization and Driving Dia. 323mm steel Casting (14 nos)	39 days	Mon 16/8/21	Thu 30/9/21	HK Working Day	678	680	100%	Mon 16/8/21	Thu 30/9/21									
	Cleaning, Insert T50 reinforcement and Grouting	18 days	Mon 11/10/21	Mon 1/11/21	HK Working Day	679	681,684	100%	Mon 11/10/21	Mon 1/11/21									
		15 days	Tue 1/3/22	Thu 17/3/22	HK Working Day		683,682	100%	Tue 1/3/22	Thu 17/3/22									
	Setup and Loading Test of Mini-Pile (T-1)				HK Working Day		,	100%		Sat 26/3/22					1				
	Setup and Loading Test of Mini-Pile (C1-2)	8 days	Fri 18/3/22	Sat 26/3/22			684												
	Construction Pile Caps (P1) with Pier 1	50 days	Fri 18/3/22	Sat 21/5/22	HK Working Day		684			Sat 21/5/22									
	Remove Timber platform for Piling Works	2 days	Mon 23/5/22	Tue 24/5/22	HK Working Day	683,680	694	0%	Mon 23/5/22	NA									
۷	Vest Portion - Foundation Works (PC-P2, PC-P3 & PC-C2)	241 days	Tue 5/10/21	Fri 29/7/22	HK Working Day			98%	Tue 5/10/21	NA									
	Mobilization and Tree Removal	3 days	Tue 5/10/21	Thu 7/10/21	HK Working Day	678	687	100%	Tue 5/10/21	Thu 7/10/21									
	Erect Temporary Timber Platform for Piling Works	5 days	Thu 28/10/21	Tue 2/11/21	HK Working Day	686	688	100%	Thu 28/10/21	Tue 2/11/21				1					
	Pre-drilling works (P WPR, PSKR, PD3, PD4 & PD5) & confirmation of rock head	16 days	Fri 26/11/21	Tue 14/12/21	HK Working Day	687,703,707	689	100%	Fri 26/11/21	Tue 14/12/21									
	and depth of mini-pile Driving Dia. 323mm steel Casting (26 nos)	58 days	Wed 15/12/21	Sat 26/2/22	HK Working Day	688	690	100%	Wed 15/12/21	Sat 26/2/22									
	Cleaning, Insert T50 reinforcement and Grouting	50 days	Sat 26/2/22	Fri 29/4/22	HK Working Day	689	692,691	100%	Sat 26/2/22	Fri 29/4/22									
	Construction Pile Caps with Pier 2	36 days	Mon 21/3/22	Wed 27/7/22	HK Working Day	690	692	95%	Mon 21/3/22	NA									
	Remove Timber platform for Piling Works	2 days	Thu 28/7/22	Fri 29/7/22	HK Working Day	690.691	694	0%	NA	NA					1				
		66 days	Sat 30/7/22	Tue 18/10/22				0%	NA	NA					-				
F	ipelaying on Mini-pile Foundation						695	0%	NA	NA									
	Temporary Working Platform for Pipe Installation	6 days	Sat 30/7/22	Fri 5/8/22	HK Working Day														
	Cut Temporary casting and Bend the T50 to designated position	12 days	Sat 6/8/22	Fri 19/8/22	HK Working Day		696	0%	NA	NA									
	Pipe Installation / Welding / Testing / Painting	24 days	Sat 20/8/22	Sat 17/9/22	HK Working Day	695	697,701	0%	NA	NA		-							
	Concrete Hunching	12 days	Mon 19/9/22	Mon 3/10/22	HK Working Day	/ 696	698	0%	NA	NA									
	Apply top coating of aliphatic polyurethane on site	6 days	Wed 5/10/22	Tue 11/10/22	HK Working Day	(697	699	0%	NA	NA						I			
	Remove Temporary Working Platform	6 days	Wed 12/10/22	2 Tue 18/10/22	HK Working Day	(698	702	0%	NA	NA						1			
Ор	en Trench Pipe Laying at Po Lam Road (East Bound)	551 days	Thu 8/4/21	Tue 14/2/23	HK Working Day	y	768	60%	Thu 8/4/21	NA									-
	Open Cut, CH.HC0+00 - CH.HC0+08; Connecting to CH.HB	60 days	Mon 19/9/22	Tue 29/11/22	HK Working Day	696,706	702	0%	NA	NA									
	Open Cut, CH.HC0+08 - CH.HC0+12	60 days	Wed 30/11/2	2 Tue 14/2/23	HK Working Day	y 699,701		0%	NA	NA									
	Open Cut, CH.HC0+12 - CH.HC0+97 with SACP	104 days	Wed 16/6/21	Tue 19/10/21	HK Working Day	1	704,688	100%	Wed 16/6/21	Tue 19/10/21									
	Open Cut, CH.HCO+97 - CH.HC1+56(Portion B4) with SACP	62 days	Wed 24/11/2	1 Thu 10/2/22	HK Working Day	y 703,707	705	99%	Wed 24/11/21	NA									
	Open Cut, CH.HC1+56 - CH.HC2+04	60 days	Fri 11/2/22	Tue 26/4/22	HK Working Day		706	0%	NA	NA									
		60 days	Wed 27/4/22		HK Working Day		701	0%	NA	NA									
	Open Cut, CH.HC2+04 - CH.HC2+70 with SACP						704,688			Tue 23/11/21									
	Open Cut, CH.HC2+70 - CH.HC3+22 with SACP	58 days	Tue 14/9/21																
	Open Cut, CH.HC3+22 - CH.HC3+70 /CH.HD0+00	131 days	Thu 8/4/21	Sat 11/9/21	HK Working Day		707	100%		Sat 11/9/21									
W Rc	/ater Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam ad (Location B)(CH.HD0+00 ~ CH.H WPR+01)	n 771 days	Tue 16/6/20	Thu 19/1/23	HK Working Da	Ŷ	768		Tue 16/6/20										
	Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B)	0 days	Tue 16/6/20	Tue 16/6/20	Calendar Day		711	100%	Tue 16/6/20	Tue 16/6/20			16/6						
	Design Submission (CE No. 62) for Water Main Structure and Associated at Tsui L	am 356 days	Wed 17/6/20	Fri 27/8/21	HK Working Da	y 710	712	100%	Wed 17/6/20	Fri 27/8/21									
	WSD & GEO Approval	0 days	Tue 21/9/21	Tue 21/9/21	Calendar Day	711	716	100%	Tue 21/9/21	Tue 21/9/21				* 2	1/9				
	TTA Drawing approval for Tsui Lam Road	0 days	Thu 30/9/21	Thu 30/9/21	HK Working Da	У	719	100%	Thu 30/9/21	Thu 30/9/21				• 3	0/9				
	LCSD's Consent	0 days	Tue 5/10/21	Tue 5/10/21	HK Working Da	у	715FS+18 days	100%	Tue 5/10/21	Tue 5/10/21				* :	5/10				
	Approval of Excavation Permit for Tsui Lam Road	0 days	Mon 1/11/21	Mon 1/11/21	HK Working Da	y 714FS+18 days		100%	Mon 1/11/21	Mon 1/11/21	L			*	1/11				
				E							Split								

				IT: 11	T-1 C1 1	Destars	P.u.s	177	Ashual Canad	Actual Finish						
Fask Na	Sma	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Complete	Actual Start	-	2018	2019)		2020	1
	Tender and sublett Mini-pile works at Location B to current Sub-contractor	73 days	Fri 27/8/21	Mon 22/11/21	HK Working Day	712	721	100%	Fri 27/8/21	Mon 22/11/21	Q4 Q1 Q2 Q3	Q4 Q1	<u>Q2</u> Q	<u>23 Q4 </u>	Q1 Q2	: Q3
	Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	322 days	Fri 21/8/20	Mon 20/9/21	HK Working Day	,	718	100%	Fri 21/8/20	Mon 20/9/21						
		69 days	Mon 20/9/21	Sat 11/12/21	HK Working Day		719		Mon 20/9/21	Sat 11/12/21						
	Mobilization, Tree Removal Works & Site Clearance															
	Obtain RA for TTA implement	38 days	Sun 7/11/21	Tue 14/12/21	Calendar Day		721			Tue 14/12/21						
	Mini-pile Foundation Works	258 days	Wed 15/12/21	Mon 31/10/22	HK Working Day	Y		39%	Wed 15/12/21	NA						
	Erect Temporary Timber Platform for Piling Works	25 days	Wed 15/12/21	Sat 15/1/22	HK Working Day	719,716	722	100%	Wed 15/12/21	Sat 15/1/22						
	Pre-drilling works & confirmation of rock head and depth of mini-pile	36 days	Wed 26/1/22	Fri 11/3/22	HK Working Day	721	723	100%	Wed 26/1/22	Fri 11/3/22						
	Mobilization and Driving Dia. 273mm steel Casting (18 nos)	51 days	Sat 26/3/22	Tue 31/5/22	HK Working Day	722	724	61%	Sat 26/3/22	NA						
	Cleaning, Insert T50 reinforcement and Grouting	18 days	Wed 1/6/22	Wed 22/6/22	HK Working Day	723	725	0%	NA	NA						
	Setup and Loading Test of Mini-Pile	36 days	Thu 23/6/22	Thu 4/8/22	HK Working Day	/ 724	726	0%	NA	NA						_
			Fri 5/8/22	Mon 31/10/22	HK Working Day	/ 725	728	0%	NA	NA						
	Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & P3						120							_		
	Pipelaying on Mini-pile Foundation	66 days	Tue 1/11/22	Thu 19/1/23	HK Working Day	1.1.2.4.1.1.1		0%	NA	NA						
	Temporary Working Platform for Pipe Installation	6 days	Tue 1/11/22	Mon 7/11/22	HK Working Day	726	729	0%	NA	NA						
	Cut Temporary casting and Bend the T50 to designated position	12 days	Tue 8/11/22	Mon 21/11/22	HK Working Day	728	730	0%	NA	NA						
	Pipe Installation / Welding / Testing / Painting (~115m)	24 days	Tue 22/11/22	Mon 19/12/22	HK Working Day	737,729	731	0%	NA	NA						
	Concrete Hunching	12 days	Tue 20/12/22	Thu 5/1/23	HK Working Day	y 730	732	0%	NA	NA						
	Apply top coating of aliphatic polyurethane on site	6 days	Fri 6/1/23	Thu 12/1/23	HK Working Day	y 731	733	0%	NA	NA						-
	Remove Temporary Working Platform	6 days	Fri 13/1/23	Thu 19/1/23	HK Working Day	y 732	740	0%	NA	NA						+
		1649 days		Mon 5/6/23	HK Working Day		768	81%	Tue 7/11/17	NA	Q					_
	From Tsui Lam Road to TKO Freshwater PSR (CH.HE.0+00 ~ CH.HE2+11) & (CH.HF0+00 CH.HF3+11)							100%		Thu 25/3/21						_
	Batch No 3 - Temporary Works Design and Preliminary Works	30 days	Fri 19/2/21	Thu 25/3/21	HK Working Day											
	TTA preparation, SLG meetings, obtain RA	150 days	Mon 3/8/20	Wed 30/12/20	Calendar Day	585		100%	Mon 3/8/20	Wed 30/12/20						
	Material procurement (DN800 MS PIPE) (360m)	255 days	Fri 19/2/21	Sun 31/10/21	Calendar Day	589	730,751,755,753	100%	Fri 19/2/21	Sun 31/10/21						
	Material procurement (Butterfly Valves)	244 days	Mon 30/8/21	Sat 30/4/22	Calendar Day			100%	Mon 30/8/21	Sat 30/4/22						
	Water Mains CH.HE0+00 - CH.HE0+27)	108 days	Fri 20/1/23	Mon 5/6/23	HK Working Day	Ŷ		0%	NA	NA					-	
	Open Cut across Tsui Lam Road (CH.HEO+00 to 0+06)	48 days	Fri 20/1/23	Mon 20/3/23	HK Working Day	y 733	741	0%	NA	NA				-		
	Open Cut across Tsui Lam Road (CH.HE0+06 to 0+20)	60 days	Tue 21/3/23	Mon 5/6/23	HK Working Day	y 740		0%	NA	NA						
	Water Mains CH.HE0+27 - CH.HE2+11	414 days	Mon 1/3/21	Mon 25/7/22	HK Working Da	v	769	75%	Mon 1/3/21	NA				_		
1			Fri 14/5/21	Fri 14/5/21	HK Working Day			100%	Fri 14/5/21	Fri 14/5/21						
	lssue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary Service Reservoir															_
	Receiving of Drawing No. SK40134/525 for Proposed Alternative Alignment at TKOFWSR	0 days	Fri 20/8/21	Fri 20/8/21	HK Working Day	У		100%	Fri 20/8/21	Fri 20/8/21						
	Open Cut, CH.HE0+20 -CH.HE0+27 (Excavation in Rock)	59 days	Mon 25/10/22	Tue 4/1/22	HK Working Day	У		100%	Mon 25/10/21	Tue 4/1/22						
	Open Cut, CH.HE0+27 -CH.HE1+98(Excavation in Rock)	254 days	Mon 1/3/21	Thu 6/1/22	HK Working Day	У		100%	Mon 1/3/21	Thu 6/1/22						
	Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	Mon 16/8/21	Tue 18/1/22	HK Working Day	у	748	100%	Mon 16/8/21	Tue 18/1/22						
	Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+13	60 days	Wed 19/1/22	Fri 1/4/22	HK Working Day	y 747	749	0%	NA	NA						
	Construction of flowmeter kiosks and GI cable ducts for Combined EMF and ME	3V 90 days	Sat 2/4/22	Mon 25/7/22	HK Working Day	y 748		0%	NA	NA						
	Chamber at CH.HE1+90 Water Mains CH.HF0+00 - CH.HF3+10 (Inlet A)	1343 days	s Tue 7/11/17	Tue 24/5/22	HK Working Da	ay	770	82%	Tue 7/11/17	NA	V					Receiver
	Open Cut CH.HF0+00 - CH.HF0+19	67 days	Sat 20/11/21	Sat 12/2/22	HK Working Da	v 737		100%	Sat 20/11/21	Sat 12/2/22						_
					HK Working Da				Fri 31/12/21	Tue 24/5/22						
	Open Cut CH.HF0+19 - CH.HF1+30	114 days	Fri 31/12/21	Tue 24/5/22												
	Construction of Combined EMF and MBV Chamber at CH.HF1+30	90 days	Sat 22/1/22	Tue 17/5/22	HK Working Da	iy 737		100%	Sat 22/1/22	Tue 17/5/22						
	Open Cut CH.HF1+30 - CH.HF1+36	31 days	Sat 22/1/22	Wed 2/3/22	HK Working Da	iγ		100%	Sat 22/1/22	Wed 2/3/22						
	Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	Thu 25/11/21	Fri 28/1/22	HK Working Da	ay 737	757	100%	Thu 25/11/21	Fri 28/1/22						
	Exposed Pipe to the side wall of TKOFWSR	41 days	Thu 24/2/22	Wed 13/4/22	HK Working Da	ay 757		100%	Thu 24/2/22	Wed 13/4/22						
-	Form Opening and Cast-in short pipe at TKOFWSR	9 days	Mon 14/2/22	Wed 23/2/22	HK Working Da	ay 755	756	100%	Mon 14/2/22	Wed 23/2/22						
ing P	Programme No. 15		tive Milestone		ration-only		-only C	External Milesto		Critical Sp	it					
	Split S	Inac	tive Summary	Ma	anual Summary Rollup 📩	Fini	sh-only	Deadline	+	Progress Manual Pro						



Task N	sma	Duration	Start	Finish	Task Calendar	Predecessors	Successors	%	Actual Start	Actual Finish	1		2019			
lion	110							Complete			Q4 Q1 Q2		2019		2020	02 0
	Construction of flowmeter kiosks and GI cable ducts for Combined EMF and	90 days	Tue 7/11/17	Mon 26/2/18	HK Working Day	у		0%	NA	NA		2 03 04		Q5 Q4	<u>, QI</u>	<u>Q2</u> Q.
	MBV Chamber at CH.HF1+30	1222 -	M-124/2/21	Tue C/0/24	Colondar Day			13%	Wed 24/3/21	NIA						
	1800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, erilization and Water Sampling	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			1370	Wed 24/5/21	IVA						
		1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA						
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to	49 days	Wed 24/3/21	Tue 11/5/21	Calendar Day	105	772	100%	Wed 24/3/21	Tue 11/5/21		-				
	CH.CT.2+65 (Approx. 0.7km)		r-: 20/0/22	Cat 19/11/22	Calandar Day	121 167 194 212 224	773	0%	NA	NA		_				
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)	51 days	Fri 29/9/23	Sat 18/11/23	Calendar Day	121,167,184,213,224	115	078	NA .	NA						
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224,251,306	774	0%	NA	NA						
	(Approx. 1.4km)															
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)	63 days	Tue 12/9/23	Mon 13/11/23	Calendar Day	372,434	775	0%	NA	NA						
		42 Jan	Tue 12/0/22	Man 22/10/22	Calandar Day	426 470 517 504 424	776	0%	NA	NA		_				
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)	42 days	Tue 12/9/23	WON 23/10/23	Calendar Day	436,479,517,594,434	776	U70	NA	NA						
	DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)	11 days	Tue 19/4/22	Fri 29/4/22	Calendar Day			100%	Tue 19/4/22	Fri 29/4/22						
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai	30 days	Fri 1/4/22	Sat 30/4/22	Calendar Day	628,623,658	777	0%	NA	NA						
	(CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km)	33 days	Tue 6/6/23	Sat 8/7/23	Calendar Day	658,667,700,709,734	778	0%	NA	NA						
	DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) &	55 uays	100 0/0/23	581 0/ 1/ 25	Calendar Day	030,007,700,703,734	//0	070								
	(CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO	6 days	Tue 26/7/22	Sun 31/7/22	Calendar Day	742	779	0%	NA	NA					-	
	F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m)															
	DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m)	6 days	Wed 25/5/22	Mon 30/5/22	Calendar Day	750	780	0%	NA	NA						
	Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA		-				
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber	· 60 davs	Wed 12/5/21	Sat 10/7/21	Calendar Day	761	782	100%	Wed 12/5/21	Sat 10/7/21						-
	at CH.CA4+24 to CH.CT.2+65															_
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50)	90 days	Sun 19/11/23	Fri 16/2/24	Calendar Day	762	782	0%	NA	NA						
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber	90 days	Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA						
	at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber	90 days	Tue 14/11/23	Sun 11/2/24	Calendar Day	764	782	0%	NA	NA		-	+			-
	at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43		T 24/10/22	Cur 21/1/24	Calaadaa Day	765	782	0%	NA	NA						
	DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44)	90 days	Tue 24/10/23	Sun 21/1/24	Calendar Day	765	782	0%	NA	INA						
	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve	60 days	Sun 1/5/22	Wed 29/6/22	Calendar Day	767	782	0%	NA	NA						
	Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau	60 days	Sun 9/7/23	Wed 6/9/23	Calendar Day	768	782	0%	NA	NA					-	
	Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) &	18 days	Mon 1/8/22	Thu 18/8/22	Calendar Day	769	782	0%	NA	NA					_	
	DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11	10 0895	1001 1707 22									_				
	DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10	18 days	Tue 31/5/22	Fri 17/6/22	Calendar Day	770	782	0%	NA	NA						
	Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA						
	DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,7	78,7 787	0%	NA	NA						
								224							_	
	S250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and /ater Sampling	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day			0%	NA	NA						
-	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	30 days	Fri 23/12/22	Sat 21/1/23	Calendar Day	121	785	0%	NA	NA						
	NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection, Sterilization and Water	30 days	Sun 22/1/23	Mon 20/2/23	Calendar Day	784	788	0%	NA	NA						
	Sampling - Portion H (Area 137)			Thu 5/9/24	Calendar Day			0%	NA	NA					-	
1	andover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	ind 5/5/24		States .	1 A 4		1.1.1.1.1.1	Sec. 2						
	DN1200 MS Pipe - Portion I & Portion H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA						
	NS250 HDPE Pipe - Portion H (Area 137)	7 days	Tue 21/2/23	Mon 27/2/23	Calendar Day	785	164	0%	NA	NA						
-	Vater Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area	445 days	Tue 7/11/17	Sat 11/5/19	HK Working D	av		99%	Tue 7/11/17	NA		_				-
	Vater Supply to Tseung Kwan O Desaination Plant at Fill Bank of Tseung Kwan O Area 37 (Portion J)		All Contract	a stand	2 Carlos	A DE DE CAR										
	Issue of CE No. 02	0 days	Fri 16/11/18	Fri 16/11/18	HK Working Da	ау	791	100%	Fri 16/11/18	Fri 16/11/18		*	• 16/11			
	Procurement of Major Material	48 days	Sat 17/11/18	Thu 3/1/19	Calendar Day	790	792	100%	Sat 17/11/18	Thu 3/1/19		ſ				
	Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No.	89 days	Fri 4/1/19	Thu 25/4/19	HK Working Da	ay 791	793	100%	Fri 4/1/19	Thu 25/4/19						_
	13/WSD/16/SK13 to SK15 and W20203/4A												-			
	Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64)	4 days	Wed 24/4/19	Sun 28/4/19	HK Working Da	ay 792	794	100%	Wed 24/4/19	Sun 28/4/19			1			
	Take Water Sampling	1 day	Mon 29/4/19	Mon 29/4/19	HK Working Da	ay 793	795	100%	Mon 29/4/19	Mon 29/4/19			1			
	Backfill at T23+64 after completion of Water Sampling Test	1 day	Sat 11/5/19	Sat 11/5/19	HK Working Da	ay 794	796FF	100%	Sat 11/5/19	Sat 11/5/19		-	1			-
													-	11/5		
	Handover Portion J to WSD Region	0 days	Sat 11/5/19	Sat 11/5/19	HK Working D	ау /95н		100%	Sat 11/5/19	Sat 11/5/19			4	1112		
		1 day	Tue 7/11/17	Tue 7/11/17	None			0%	NA	NA		-				
_									1							
					iration-only	Start-only	c	External Milesto	ie 🗇	Critical S						

Page 19

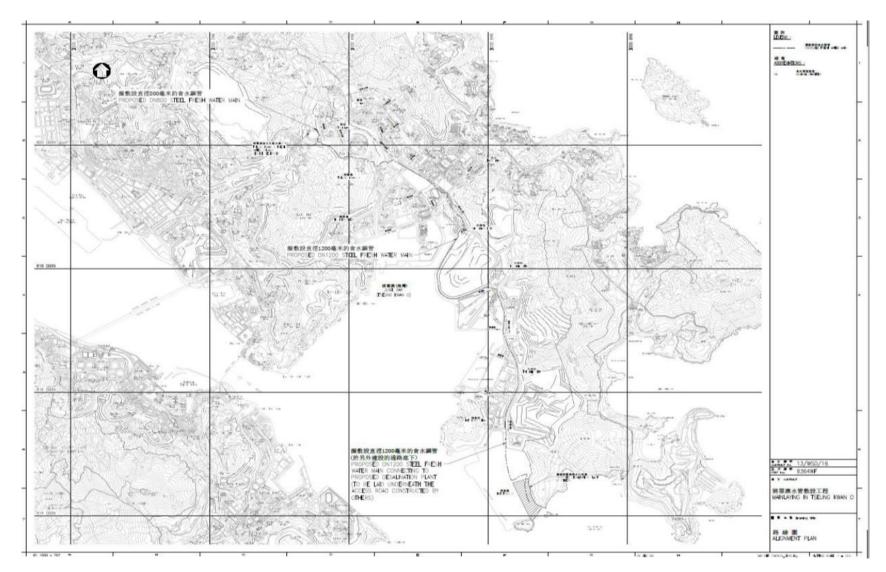




Appendix B

Overview of Mainlaying in Tseung Kwan O





Overview of Mainlaying in Tseung Kwan 0



Appendix C

Summary of Implementation Status of Environmental Mitigation Measures (EMIS)



EIA	Recommended Environmental Protection	Objectives of the	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference		recommended measures & main concerns to address	Agent	D	C	0	status	Guidelines
Air Quality					<u> </u>			
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)		~		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)		1		Implemented	-
S4.8.1	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)		-		N/A	-
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		1		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)	~	~		N/A	-
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	-



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
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, reminder issued	-
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, reminder issued	-
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 Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	-	ementa Stage	ation O	Implementation status	Relevant Legislation & 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.	construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental	0	 ✓ 	5	Implemented	-
			Checker (IEC)					



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Noise				-			· · · · · · · · · · · · · · · · · · ·	
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)		*		N/A	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		1		Implemented	
S5.7	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	
S5.7	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	
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		~		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	
S5.7	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 Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation & Guidelines
Reference	Measures/ 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	-
S5.9	Sawcutting 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	-
S5.9	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	-
S5.10	A noise monitoring programme shall be implemented for the construction phase.	Designated monitoring stations as defined in EM&A Manual/During construction phase	ET		✓		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	Objectives of the recommended measures &	Implementation		ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Water Qual					_			
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)		•		Observation issued. Rectified 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, reminder issued	ProPECC PN 1/94
S6.9	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	-	ementa Stage C	tion 0	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)		 € ✓ 	0	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)		•	•	N/A	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)		1	•	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, reminder issued	-
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	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	ement Stage		Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
Waste Man				-				
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	-
S8.5	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
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	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
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Reminder issued	Waste Disposal Ordinance (Cap 354)



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
S8.5	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
S8.5	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
S8.5	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
S8.5	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)		•		Observation issued, rectified after observation	-
S8.5	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	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		•		N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
S8.5	The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No.</i> 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)
S8.5	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)



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	- Status	Guidelines
S8.5	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)		•		Reminder issued	Air Pollution Control (Construction Dust) Regulation (Cap 311R)
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		1	~	Observation issued, rectified after observation	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice
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		*	~	Implemented	on the Packaging, 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		•	•	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		•	•	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		~	~	Reminder issued	
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 Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Imp	lement Stage		Implementation Status	Relevant Legislation & Guidelines
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidennes
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 minimize odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	•	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, 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 Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	ement Stage	ation	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	Status	Guidennes
Ecology	<u> </u>	1	1	-	I •		1	
S9.7	For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	~		N/A	-
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		•		Implemented	
\$9.7	The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia</i> <i>lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	~		N/A	-
S9.7 and 9.10	At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	~		N/A	-



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
\$9.7	Temporary fencing will be installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.	Slope mitigation works area/ During construction	Contractor(s)		~		N/A	-
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		~		N/A	-
S9.7	Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		-		N/A	-
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		•		N/A	-
\$9.7	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)/ ET		1		Implemented	-
\$9.7	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	-
S9.7	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 & main concerns to address	Implementation Agent	Impl D	Implementation Stage D C O		Implementation Status	Relevant Legislation & Guidelines
S9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.		Contractor(s)		•		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent	Imp	lement Stage		Implementation Status	Relevant Legislation & Guidelines
Reference	Freubures/ Friegation Freubures	address	ingenie	D	C	0	Status	Guidelines
Landscape			•					
S11.10 & 11.11	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)	~	-	√	Implemented	-
S11.10 & 11.11	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)	•	•	•	Implemented	-
S11.10 & 11.11	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: - green roofs where practical (i.e., without equipment on the roof); - 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)	~	~	×	Implemented	-
\$11.10 & 11.11	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, reminder issued	ETWB TCW No. 3/2006 - Tree Preservation.



S11.10 & 11.11	No tree within the Country Park will be felled. 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	DEVB TC(W) No. 10/2013



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures & main concerns to	Implementation	Imp	lemen Stage		Implementation Status	Relevant Legislation & Guidelines
Kelerence	Measures/ Mitigation Measures	address	Agent	D	С	0	Status	Guidennes
	as Hazard							
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 meter.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	•	•	Implemented	-
S12.7	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)	V	Ý	¥	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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented	-



S12.7	 instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen. 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. Proceed drilling with adequate care and 	All area/ Detailed design/ During construction/ During operation All area/ Detailed design/	Contractor(s) Contractor(s)	×	×	×	Implemented	-
512.7	precautions against the potential hazards which may be encountered.	During construction/ During operation	Contractor(3)				Implementeu	
S12.7	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)	•	~	~	N/A	-
\$12.7	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	-



S12.7	The manholes and utility pits within the Project Site and along the freshwater 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 and	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	√	~	Implemented	-
	for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.							
S12.7	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.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	√	•	Implemented	-



Appendix D

Summary of Exceedance



Summary of Exceedance

Environmental Monitoring	Proje excee Parameter the r		f non- related ance in oorting iod	Total No. of non-Project related exceedance in the reporting	rela exceed	Project ited ance in oorting iod	Total No. of Project related exceedance in the reporting period	
		AL	LL	period	AL	LL	periou	
Noise	Leq (30min)	0	0	0	0	0	0	
	02	0 0		0	0	0	0	
Landfill Gas	CH ₄	0	0	0	0	0	0	
	CO ₂	0	0	0	0	0	0	



Appendix E

Complaint Log



Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature					
1 May 2022 - 31 July 2022	0	3	N/A					

Statistical Summary of Environmental Summons

Reporting	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 May 2022 - 31 July 2022	0	0	N/A				

Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics							
Period	Frequency	Cumulative	Details					
1 May 2022 - 31 July 2022	0	0	N/A					



Appendix F

Event / Action Plan for Noise and Landfill Gas



Event / Action Plan for Construction Noise Monitoring

Event	Action									
	ЕТ	II	EC		ER	C	Cont	ractor		
Action Level	1.	source and cause of the complaint/ submit		v the analysed result tted by the ET v the proposed remedia		Confirm receipt of Notification of 1 Exceedance in writing Require Contractor to propose remedial 2	i	Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation		
	2.	Notify IEC, ER, and Contractor and report the results of investigation to the	measu advise	res by the Contractor an the ER accordingly	d	measures for the analysed noise problem		proposals.		
	3.	Contractor, ER and the IEC 3. Discuss with the Contractor and IEC for remedial measures required	-	rise the implementation of ial measures	of 3.	Ensure remedial measures are properly implemented				
	4.	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								
Limit Level	1.	Carry out investigation to identify the 1. source and cause of the exceedance		v the analysed result tted by the ET	ts 1.	Confirm receipt of Notification of 1 Exceedance in writing		Take immediate action to avoid further exceedance		
	2.	Notify IEC, ER, Project Proponent, EPD 2. and Contractor		s the potential remedia res with ER, ET Leader, an		Require the Contractor to propose 2remedialmeasuresfor		Submit proposals for remedial actions to IEC and ER within 3		
	3.	Repeat measurements to confirm findings 3.	Contra . Reviev		al 3	the analysed noise problem Ensure remedial measures are properly 3		working days of notification Implement the agreed proposals		
	4.	Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances	action assure	s whenever necessary t their effectiveness and advis accordingly	0	implemented 4 If exceedance continues, consider what activity of the work is responsible and 5	.]	Resubmit proposals if problem still not under control Stop the relevant activity of works		
	5.	If the exceedance is related to the 4. Project, assess effectiveness by additional monitoring.	. Superv	ial measures	of	instruct the Contractor, in agreement with the Project Proponent, to stop that activity of work until the exceedance is	:]	as determined by the Project Proponent until the exceedance is abated		
	6.	Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor				abated				
	7.	If exceedance stops, cease additional monitoring								



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

Action and Lovel and Event / Action Plan for Landfill Cas Monitoring



Appendix G

Waste Flow Table



Appendix G – Waste Flow Table

	A	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-C&D Wastes Generated 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 '000m ³)	(in '000m ³)	(in '000m ³)	(in'000kg)	(in'000kg)	(in'000kg)	(in'000kg)	(in '000m ³)		
Jan 2022	2.342	0.145			2.014	0.328		0.065			0.006		
Feb 2022	2.184	0.240			1.855	0.329		0.058			0.001		
Mar 2022	1.284	0.028	0.096		1.188	0.860		0.054			0.002		
Apr 2022	0.840	0.012	0.188		0.652	0.751		0.055			0.003		
May 2022	1.008	0.036	0.528		0.480	0.737		0.057			0.000		
Jun 2022	1.710	0.200	0.398		1.312	0.639		0.056			0.007		
Sub-total	9.368	0.661	1.210		7.501	3.644		0.345			0.019		
Jul 2022	1.750	0.116	0.617		1.133	0.064		0.055			0.006		
Aug 2022													
Sep 2022													
Oct 2022													
Nov 2022													
Dec 2022													
Total	11.118	0.777	1.827		8.634	3.708		0.400			0.025		

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.